AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATTERSON AFB OHIO F/G 1/2
COMMUNITY NOISE EXPOSURE RESULTING FROM AIRCRAFT OPERATIONS. VO--ETC(U)
FEB 78 J D SPEAKMAN, R G POWELL, R A LEE
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AMRL-TR-73-110 Volume 4



COMMUNITY NOISE EXPOSURE RESULTING FROM AIRCRAFT OPERATIONS:

FILE COPY.

Volume 4.

Acoustic Data on Air Force Trainer /Fighter Aircraft

J. D. SPEAKMAN
R. G. POWELL
R. A. LEE

FEBRUARY 1978



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AEROSPACE MEDICAL RESEARCH LABORATORY
AEROSPACE MEDICAL DIVISION
AIR FORCE SYSTEMS COMMAND
WRIGHT-PATTERSON AIR FORCE BASE, OHIO 45433

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AMRL-TR-73-110, Vol 4

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This technical report has been reviewed and is approved for publication.

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FOR THE COMMANDER

HENNING E VON GIERKE

Director

Biodynamics and Bioengineering Division Aerospace Medical Research Laboratory

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SECURITY CLASSIFICATION OF THIS PAGE (When Date Entered) READ INSTRUCTIONS REPORT DOCUMENTATION PAGE BEFORE COMPLETING FORM 1. REPORT NUMBER AMRL-TR-73-110 (Vol 4) 4. TITLE (and Subtitle) COMMUNITY NOISE EXPOSURE RESULTING FROM AIRCRAFT OPERATIONS Volume 4 Acoustic Volume 4 of a Series Data on Air Force Trainer/Fighter Aircraft PERFORMING ORG. REPORT NUMBER B. CONTRACT OR GRANT NUMBER(*) Jerry D. Speakman, Robert G. Powell Robert A. Lee PERFORMING ORGANIZATION NAME AND ADDRESS Aerospace Medical Research Laboratory Aerospace Medical Division, Air Force 7231 Systems Command, Wright-Patterson AFB OH 11. CONTROLLING OFFICE NAME AND ADDRESS Same as above 644 15. SECURITY CLASS 14. MONITORING AGENCY NAME & ADDRESS(If different from Controlling Office) Unclassified 15a. DECLASSIFICATION/DOWNGRADING 16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited 17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report) 18. SUPPLEMENTARY NOTES 19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Aircraft Noise Community Noise Exposure Noise Environments 20. ABSTRACT (Continue on reverse side if necessary and identify by block number) A This report presents the results of field test measurements to define the noise produced on the ground by military, fixed wing aircraft during controlled level flyovers and ground runups. For flight conditions, data are presented in terms of various acoustic measures over the range 200-25,000 feet minimum slant distance to the aircraft. For ground runups, data are presented as a function of angle and distance to the DD 1 JAN 73 1473

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aircraft. All of the data are normalized to standard acoustic reference conditions of 59°F temperature and 70% relative humidity. Volume 1 discusses the scope, limitations, and definitions needed to understand and use the volumes containing the noise data. Volume 1 provides guidance for making airspeed and engine power setting adjustments to the flight noise data for other than reference conditions as well as work sheets and several examples for computing cumulative noise exposure resulting from multiple flight or ground runup operations. Noise data are presented in this Volume 4 for the following aircraft: F-100C,D,F; F-101B,C,F; F-102A; F-105B,D,F,G; F-106A,B; T-33A; T-37B; T-38A; T-39A,B,F; T-43A; and U-2.

The other noise data volumes are categorized according to:

Vol. 2: Air Force Bomber/Cargo Aircraft Noise Data Vol. 3: Air Force Attack/Fighter Aircraft Noise Data

Vol. 5: Air Force Propeller Aircraft Noise Data

Vol. 6: Navy Aircraft Noise Data

PREFACE

The authors gratefully acknowledge the many helpful technical discussions and critical reviews of the data acquisition and reduction procedures by Bolt Beranek and Newman Inc. and Mr. John N. Cole of the Biodynamic Environment Branch; development of the OMEGA software programs by Mr. Henry Mohlman and maintenance of the data files by Mr. David Eilerman both of the University of Dayton Research Institute, the instrumentation development and noise measurement efforts of Harald K. Hille of the Biodynamic Environment Branch; and the noise measurement efforts of Capt N. A. Farinacci of the Biodynamic Environment Branch and Mr. Keith Kettler of the University of Dayton Research Institute.

This report is one of a series describing the contractual and in-house research program undertaken by the Aerospace Medical Research Laboratory, Biodynamic Environment Branch, under Project/Task 723104, "Measurement and Prediction of Noise Environments of Air Force Operations," to develop the procedures and acoustic data base required for predicting community noise exposure resulting from aircraft operations.

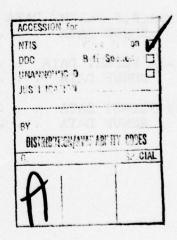


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INTRODUCTION

This report is one of a series published under the same report number (AMRL-TR-73-110) as a multi-volume databook quantifying the single event, far-field noise produced on the ground by flyover and ground runup operations of military aircraft. A companion report (AMRL-TR-73-107, "Community Noise Exposure Resulting From Aircraft Operations: Acquisition and Analysis of Acoustic Data") describes the test protocol and data reduction algorithms associated with these data.

Volume 1 discusses the scope, definitions, and limitations of the noise data volumes as well as providing work sheets and several examples for making hand computations of noise exposure from multiple flight and/or ground runup operations.

Volume 4 provides the noise characteristics of Air Force trainer and fighter type aircraft.

For identification purposes a code number has been assigned that is unique for each aircraft type. The noise data for aircraft codes less than 500 are based on measured flyovers and ground runups. The noise data for aircraft codes greater than 500 are estimated from measured data on aircraft having similar engines with adjustments made to account for different numbers of engines or different thrust.

The OMEGA 6.6 output pages describe the flyover noise characteristics while the OMEGA 8.2 output pages show the expected noise levels for *single* engine operation during ground runup.

For ease of comparing flight noise levels of different aircraft, the graphs of noise versus distance shown in the OMEGA 6 printouts are sized to fit the standard 3-cycle by 10 divisions per inch semi-logarithmic paper.

The other noise data volumes are categorized according to:

- Vol. 2: Air Force Bomber/Cargo Aircraft Noise Data
- Vol. 3: Air Force Attack/Fighter Aircraft Noise Data
- Vol. 5: Air Force Propeller Aircraft Noise Data
- Vol. 6: Navy Aircraft Noise Data

Direct any questions concerning the data in this report to: AMRL/BBE, Wright-Patterson AFB OH 45433; Autovon 78-53664 or 78-53605; Commercial (513) 255-3664 or (513) 255-3605.

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250	123.3	124.1	136.5	37.		121.5	122.3	125.7
315	121.1	121.8	134.2	34.		120.3	121.1	124.4
90+	118.8	119.6	131.7	32.		119.0	119.8	122.9
200	116.5	117.3	129.2	129.9		117.7	118.5	121.4
630		115.0	126.6	121.3		110.4	11/05	119.8
990	111.8	112.6	124.0	24.		115.0	115.8	118.2
1000	109.4	110.2	121.4	122.1		113.6	114.4	116.6
1250	106.9	107.7	118.7	119.5		112.2	112,9	114.9
1600	104.4	105.2	116.0	116.7		110.6	111.4	113.2
2000	101.8	102.6	113.2	113.9		109.0	109.8	111.3
2500	99.1	6.66	110.3	111.0		107.3	108.1	109.5
3150	96.3	97.1	167.3	108.1		105.6	106.3	107.5
4300	93.5	94.1	104.3	104.9		103.7	104.3	105.3
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6300	87.3	87.6	97.9	98.2		66.5	99.8	100.6
9000	83.9	84.1	34.5	9.46		~	97.3	98.0
10000	80.4	4.08	6.06	6.06		2.46	2.46	95.3
12500	76.7	76.7	87.1	87.1		91.9	91.9	92.5
16000	72.8	72.8	83.0	83.0		89.0	89.0	4.68
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* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
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AIRCRAFT:																				-				:
••	GROUND-TO-GROUND	10-T	9-GR	ONNO	PR	OPAGATI	TION													- 1	OMEG	GA	9.9	
	F-100					PE	ATIC PER 99	S X RP	8 E	0 % a	ER. 045 EPI KNOTS	œ	20000	ETE	OROLOGY TEMP REL 1	= = =	10 08	20 20	ш×		A/C OPS OPS C	CODE CODE FILE MAR 7	E # 1 VER 76	30 01 1 A
SLANT DISTANCE (FEET)	11	19	13	20	21	22	23	24	25	FRE 26	QUEN 27	C₹ 3	AND 29	NUMB	31.	32	£,	a a	35	99	37	88	39	3
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200	68	89		26	104	3		101	101	104	0	103	0	101	0	3	J	9	26	96	93	92	92	80
630	87	87		95	101	9	-	66	105	102	0	101	0	66	96	26	96	95	16	95	06	88	87	00
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1000	83	83	62	99	95	26	95		101	86	66	26		46	16		91	89	88	85	82	19	25	9
1250	81	81	92	98	95	46	92		96	96	16	46		92	91		88	86	84	81	11	73	29	in
1600	62	22	72	83	68	96	89		95	46	46	95		89	88		85	82	80	92	72	99	28	3
2000	91	42	69	62	85	98	85	82	91	91	95	96	8	87	83	83	81	19	75	20	65	28	14	59
2500	72	20	49	15	81	82	81		87	88	89	87		84	82		11	14	7.0	63	28	48	34	-
3150	68	69	9	20	92	11	10		83	83	98	84		81	79		73	69	49	96	64	36	18	
0004	19	09	24	49	20	7.1	2.0		11	29	82	81		11	15		68	63	96	94	38	22		
5000	29	96	20	9	69	29	69		7.1	73	7.8	11		73	7.1		62	96	48	35	52	\$		
6300	24	51	45	55	69	9	9		69	89	73	72		69	99		96	48	37	21	10			
8000	25	64	43	53	28	23	25		62	49	20	68		10	9		4 8	38	52	2				
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16600	45	45	36	45	20	51			55	53	25	24		45	37	56	13							
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25000	0+	37	30	04	111	45			143	43	45	40		25	1 3									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

* BAND WHICH DETERMINES THE TONE CORRECTION (C).

	GROUND-TO-GROUND F	PROPAGATION				~ ~	OMEGA 6.6
AIRCRAFT: F-100		(OPERATION: (AFTERBURNER (95 % RPM (AIRSPEED = 3	* RPM 2.045	EPR	METEOROLOGY: TEMP = REL HUMID = DELTA N = 0.0 08	59 F	A/C CODE: 030 OPS CODE: 101 PROFILE VER: A 26 MAR 76 PAGE M1
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (UBA)	PNL (PN 08)	PNLT**	SEL (UB)	SELT** (08)	EPNL**
200	120.5	121.5	133.8	134.8	117.8	118.	122.2
250	118.3	119.3	31.	132.5	116.5		120.9
315	116.1	117.0	129.2	130.1	115.3	116.	119.5
004	113.8	114.7	126.7	27.	114.0	115.	118.1
200	111.5	112.4	124.1	125.1	112.7	113.	116.5
636	109.2	110.1	121.4	25.	111.4	112.	114.8
800	100.7	107.7	118.7	119.7	110.0	110.	113.1
1000	104.3	105.2	116.6	110.9	108.5		111.3
1250	101.7	102.6	112.8	113.8	106.9		109.2
1600	0.66	6.66	109.7	110.6	105.2		107.0
2000	96.2	97.1	106.5	107.4	103.4	104.3	104.8
2506		0.46	102.9	103.8	101.3		102.3
3150	1.68	9.06	98.8	2.66	6.86		99.2
0004	85.9	96.6	94.3	95.0	96.1		4.56
5006	81.5	82.1	89.3	89.9	92.7		91.3
6300	6.92	77.3	84.2	84.5	89.1		87.0
9000	72.7	72.9	9.00	80.2	86.0		83.6
10000	68.3	68.3	75.6	15.6	82.5		80.0
12500	63.4	63.4	70.8	70.8	78.6		76.2
16000	58.0	58.0	65.5	65.5	74.2		71.9
20000	52.2	52.2	9.65	9.65	4.69	4.69	67.1
				-			

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

100 AFTERBURNER POWER 95 X RPH 2.045 EPR RPFED = 300 KNOTS AP = 59 F REL HUMID = 70 X LTA N = 0.0 08 ENT: 6.6-030-101-260376-A ENT: 6.6-030-101-260376-A X X X X X X X X X X X X X X X X X X X	A+.	A+ .	• d*		• •	• •		•		•						336.0	GROUND TO	P = PNLT	• + = ALT	120
AFTERBURNER POWER " 2.045 EPR " 300 KNOTS " 0.0 DB ORDS: 8 -0.30-101-260376-A X X A+ *P X X X X X *P X X X *P X X X *P X X X *P X X X *P X X X *P X X X *P X X X *P X X X *P X X X *P X X X *P X X X *P X X X *P X X X *P X X X *P X X X *P X X X *P X X X *P X X X *P X X X X X *P X X X X X X X X X X X X X X X X X X X	•	•		×	A+	A+ .	A+	d* · +1	d.	* b	• d	•							•	110
AFTERBURNER 300 KNOTS 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	т Ж					•			A+	A+	A+ .		• d		*				•	G-0 F
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T AFOXH	F-100 95 % RI ATRSPEED :	TEMP = 59	NO. OF REI		•	•		•	•		•					•	:		×	7.0

TERBURNER POWER 1.045 EPR KNOTS REL HUMID = 70 % 1.01-260376-A 1.01-260376-A	MID = 70 % 0376-A E X E X E X E X X
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		ů.	-100			4	TAKEOFF		POWER				*	ī	% APM	Σ	~	2.0	EPR				
RSPE	AIRSPEED	AMP	11 1	299	TONA	S			TEMP	ا م	1	11 1	59 F						PNLT	11 11	108.7	PND8	00 0
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	AIR-	10-6	AIR-TO-GROUND	, a	ROPAS	ATI	NO														OME	OMEGA 6.6	9.9	
AIRCRAFT	F-100	,				OPER	AKE 94.	N N N N N N N N N N N N N N N N N N N	POWER RPM		2.0 EP	¥	2222	METEO	OROLOGY TEMP REL HU	HUHI HOHI	110 = 010	59	L ×	1	A/C OPS PROF 26 M	ARE SO	E 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
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004	83	82	11	89	66	26	94			26	96	96	95	96	95		96	95	46		88	98	83	-
500	81	96	22	87	93	95	92			95	50	46	92	93	93		76	92	92		82	83	6 1	
800	13	22	22	83	89	91	9 6	89	91	96	95	26	9 6	89	89	89	89	87	86	9 9	782	22	22	60
1000	75	74	69	81	87	89			6.8	88	88	88			86	86	86	48	83	62		20	19	5
1250	73	72	20	62	85	87			87	98	95	85			84	84	83	81	80	15		69	21	43
1600	7.1	7.0	9	11	83	95			85	84	83	83			81	81	80	7.8	92	20		66	48	m
2000	69	80	63	25	81	83			82	82	81	81			7.8	78	77	14	7.1	69		51	39	7
2500	29	99	61	73	79	81			80	62	19	78			15	75	73	20	99	29		£3	22	
3150	19	49	29	7	12	52			2 8	22	92	20			72	2:	69	62	61	25	5	35	15	
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12500	25	21	46	25	63	49	9	9	62	29	25	92	20	47	45	36	28	14						
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25,000	45	77	20	S. C.	22	25	20	20		46	42	27		22	12									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4 SAND WHICH DETERMINES THE TONE CORRECTION (C).

ATP-TO-G	anda OMINGS-OT-OTA	MOTTAGE					-	A A A S A A S A A A A A A A A A A A A A
20-01-41	2000							0
•		ION: EOFF	POWER 2.0	2.0 EPR	METEDROLOGY I	MI OIN	59 F)	A/C CODE: 030 OPS CODE: 103 PROFILE VER:
			= 300	2	DELTA N =	0.0		26 MAR 76
			:					
SLANT DISTANCE	A.	ALT**	PNI	PNLT**		SEL	SELT**	EPNL **
(FEET)	(DBA)	(08A)	(PNDB)	(PNDB)		(08)	(08)	3)
200	112.5	112.5	126.1	126.1		112.0	112.8	115.9
250	110.4	110.4	123.8	123.8		110.9	111.6	114.7
315	108.1	108.1	121.5	121.5		109.7	110.4	113.3
90+	105.9	105.9	119.1	119.1		108.4	109.2	112.0
500	103.6	103.6	116.7	116.7		107.1	107.8	110.5
630	101.2	101.2	114.1	114.1		105.7	106.5	108.9
900	98.8	98.8	111.4	111.4		104.3	105.1	107.2
1300	96.3	96.3	108.7	108.7		102.8	103.6	105.5
1250	93.7	93.7	105.8	105.8		101.2	102.0	103.6
1600	91.0	91.0	102.8	102.8		9.66	100.3	101.6
2000	68.3	88.3	9.66	99.0		97.8	98.5	
2500	49.68	85.4	96.3	96.3		6.56	96.7	97.1
3150	82.4	82.4	92.7	92.7		93.9	2.46	6**6
4000	79.3	79.3	89.5	89.5		91.9	95.5	92.2
5000	76.1	76.1	86.2	86.2		89.7	90.1	7.68
6300	72.8	72.8	82.7	82.7		87.3	87.6	87.0
8000	4.69	7.69	19.0	79.0		6.48	85.0	84.2
10000	65.8	65.8	75.2	75.2		82.3	82.3	81.3
12500	62.0	62.0	71.3	71.3		79.5	29.62	78.3
16000	58.1	58.1	67.0	67.0		9.92	9.92	75.1
20000	53.9	53.9	65.5	65.5		73.4	73.4	71.5
20000				C. C.				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS! 4
** BASEU ON SMOOTHED TONE CORRECTION FUNCTION.

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-		100	0-64	GROUND-TO-GROUND	ď	OPAGATIO	TION													-	OMEGA		9.9	
AIRCRAFI	F-130			1311		OPER T	AKEOFF 94.5 %		POWER RPM	2 S	2.0 EPR KNOTS	~		ETEO:	TEOROLOGY TEMP REL H	- 5 3	10 0	59	ш×	1	A/C OPS PROF PAGE	A/C CODE OPS	D 4 8	30 03
SLANT DISTANCE (FEET)	17	81	2	20	22	22	23	4,	52	FRE 26	QUENCY 27 2	8 8	AND 29	NUMBER 30	31	25	33	34	35	98	37	38	68	3
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315	36	13	1.	86	95	34	91	95	16	3	93	93	35	95	92	93	93	95	92	68	86	84	82	7
4.00	78	17	72	84	90	92	8		92	92	91	91			06	91	91	90	68	87	83	81	78	1
200	16	15	7.0	82	88	90	86		9.0	90	68	89			88	68	68	87	87	94	80	78	14	9
630	7.	73	68	80	85	87	* 6		88	88	87	87			86	86	86	85	48	81	11	14	0.2	9
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1000	7.0	69	19	75	80	81	78		84	83	83	83		81	81		81	62	78	14	7.0	65	29	4
1250	99	29	61	72	11	18	15	92	81	81	00	0.0	62	62	62	62	78	92	25	2.0	69	09	52	38
1600	99	19	58	99	73	75	71		11	62	20	18		16	16		75	73	7.1	65	09	24	43	2
2000	62	09	24	19	69	71	29		14	11	92	92		14	73		72	69	99	09	24	94	34	-
2500	29	99	20	9	69	29	63		20	73	73	73		7.1	20		68	69	61	24	48	38	22	
3150	55	52	42	95	9	62	29		69	69	20	7.1		68	29		49	09	96	14	0 4	27	1	
0004	20	14	40	20	55	96	52		09	79	99	29		69	63		9	55	64	39	30	14		
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12500	34	31	54	33	38	39	35	35	04	43	147	14	1 1	45	37		23	6						
16000	32	59	22	31	35	36	32	32	36	7	42	42	38	35	29	21	10							
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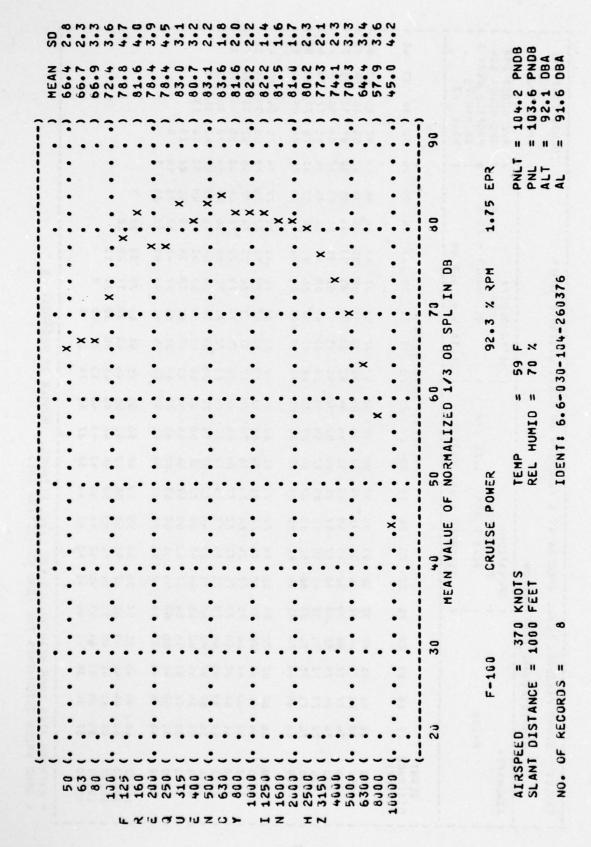
* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4 SAND WHICH DETERMINES THE TONE CORRECTION (C).

	GROUND-TO-GROUND P	ROPAGATION						OMEGA 6.6
AIRCRAFT: F-100		(OPERATION: (TAKEOFF (94.5 %	POWER 2.0	E PR	METEOROLOGY: TEMP REL HUM	5 = CI	- K	A/C CODE: 030 OPS CODE: 103 PROFILE VER:
		(AIRSPEE	0 = 300 KNOTS	TS)	DELTA N =	0.0 08		26 MAR 76 PAGE M2
SLANT DISTANCE	AL	ALT**	PNL	PNLT**		SEL	SELT**	EPNL**
(FEET)	(08A)	(084)	(PN 08)	(PN08)		(90)	(08)	(EPNDB)
200	107.5	107.5	121.1	121.1		107.0	107.8	110.9
250	105.4	105.4	118.8	118.8		105.9	106.6	109.6
315	103.1	103.1	116.5	116.5		104.7	105.4	108.3
001	100.9	100.9	114.1	114.1		103.4	104.1	106.9
200	98.6	98.6	111.6	111.6		102.1	102.8	105.4
630		96.2	109.0	109.0		10001	101.5	103.8
800	93.8	93.8	106.2	106.2		99.3	100.0	102.1
1600	91.2	91.2	103.4	103.4		7.76	98.5	100.2
1250	88.6	88.6	100.3	130.3		9	96.8	98.1
1600	85.8	85.8	37.1	97.1		+	95.1	6.56
2000	83.0	83.0	93.6	93.6		95.5	93.2	93.4
2500	79.8	79.8	89.7	2.68			91.1	90.5
3150	76.5	76.5	85.5	85.5			88.7	87.3
4000	72.7	72.7	80.9	80.9		2	85.8	83.5
2000	68.5	6.80	15.9	6.52		5	82.5	4.62
6300	0.40	0.40	70.6	20.6		8	78.8	75.0
8000	59.8	59.8	66.2	2 • 9 9		2	75.4	71.4
10000	55.2	55.2	61.5	01.5		711.7	71.7	67.6
12500	50.3	50.3	56.4	56.4		-	67.8	63.4 .
16000	45.0	45.0	50.9	6.05		3	63.5	58.9
20000	39.5	39.2	1.11	***		58.7	58.7	53.4
2000		7.7 6	36 3	20 2				

* EXTRAPOLATED FROM MEAN VALJES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

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ğ 11	1 TEMP = 59 F	I NO. OF RECORDS!			•												Poken transfer	04. 40° 04. 4550		
TAKEOFF POWER 2.0 EPR 300 KNOTS	REL HUMID =	DS: 4		- N	*			•		•		•		•	•		20 mg 2 mg 2 mg 2 mg 2	E	E X	EX
	. % 02									•					• E	E . X	ж	E. ×		
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(FEET)		3	•	3	;	3					;	3	3		;	,	3	;	3			3	5	
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315	92	11	11	85	68	36	68		93	91	56	*		93	16	93	93	93	6	90	87	83	81	
000	3.	22	22	800	20	06	200		91	50	26	26		16	91	16	91	16	6.0	28	4 0	9 :	2	
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800	200	1 69	1 6	2 2	81	9 6	3 6	3 6	8 2	83	85	86	0 0	85	85	0 00	9 6	9 60	8 0	182	2 2	69	6 5	, 6
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1000	99	19	29	72	62	82	8.2		834	81	83	84		82	82	81	91	9.0	11	1.4	7.0	19	28	
1250	19	69	9	20	11	80	92		81	62	81	81		80	80	62	18	11	14	20	99	26	51	36
1600	62	63	63	99	15	11	14		62	92	62	19		11	11	16	15	12	20	99	61	53	43	•
2000	79	61	61	99	73	75	72		11	14	92	11		15	14	73	72	20	99	09	25	45	33	
2560	28	29	29	49	20	73	20		14	72	14	14		72	7.1	20	68	96	61	24	48	36	51.	
3150	96	25	25	62	68	11	99		72	69	11	72		69	99	99	49	61	25	47	0 4	92	9	
4000	24	24	22	9	99	69	69		20	29	69	69		99	99	29	00	26	64	39	30	13		
2000	25	25	25	28	10	29	63		29	19	99	9		62	19	28	40	64	41	58	13			
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16000	41	41	47	94	25	24	20	64	25	84	84	42	0 4	36	30	21	10							
20000	39	39	39	44	64	21	14	45	64	43	43	40	33	27	20	6								
256.00	17	35	36	1.4	7.7	0.7	1.7	1.4		20	22	11	,		9									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

* BAND WHICH DETERMINES THE TONE CORRECTION (C).

	AIR-TO-GROUND PROP	PASATION					•	OMEGA 6.6
AIRCRAFT: F-100		(OPERATIONS (CRUISE POWER (92.3 % RPM (AIRSPEED = 3	ONER 1.75 E	EPR	METEOROLOGY: TEMP REL HU DELTA N = 0	# 0 0.	59 F 70 %	A/C CODE: 030 OPS CODE: 104 PROFILE VER: 26 MAR 76 PAGE I3
SLANT DISTANCE (FEET)	AL (OBA)	ALT** (08A)	PNL (PNOB)	PNLT ** (PND3)		SEL (08)	SELT**	EPNL** (EPNDB)
500	107.8	108.3	120.9	121.4		104.9	105.9	109.0
250	105.6	36.	118.6	119.2		103.7	104.8	107.8
315	103.4	194.0	116.3	116.9		102.5	103.6	106.5
400	101.1	101.7	114.0	114.6		101.3	102.3	105.2
200	98.8	4.66	111.6	112.1		100.0	101.0	103.7
630	96.5	97.1	109.0	109.6		98.6	2.66	102.2
900	94.1	9.46	106.4	107.0		97.2	98.2	100.6
1000	91.6	92.1	103.6	104.2		2.56	90.7	98.8
1250	89.0	89.5	100.7	101.2		94.1	95.1	8.96
1600	86.3	86.8	9.76	98.1		95.4	93.5	2.46
2000	83.5	84.1	94.2	8.46		90.6	91.7	95.4
2500	80.6	81.1	90.8	91.3		88.7	89.8	6.68
3150	77.5	78.1	87.1	87.7		86.7	87.7	87.3
0004	74.4	74.8	83.6	84.1		84.5	85.3	84.6
5000	71.1	71.4	80.1	80.5		82.2	82.8	81.9
6300	67.6	67.8	76.5	76.7		19.7	80.2	19.0
9008	64.0	64.1	72.7	72.8		77.1	77.3	16.0
10000	60.1	60.1	69.9	68.9		74.3	74.3	73.0
12506	56.1	56.1	2.40	64.7		71.3	71.3	8.69
16000	51.9	51.9	60.3	60.3		68.0	68.0	66.4
20000	47.4	47.4	55.5	55.5		9.49	9.49	62.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

D00003: 6	•	92.3 % RPM AIRSPEED =	CRUISE POWER 1.75 EPR 350 KNOTS	; •		٠	*		•
24. OF RECORDS		DELTA N =	9 .	2	•	•		•	
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SLANT F-100 F-	TABLES	SOUND PRESSURE LE	D PR	SSO	RE L	EVEL	SPECTRA		AS A		FUNCTION	N OF	SLANT		DISTANCE		(08)				100	IDENTIFICATION	ICAT	ION	
F-100 (OPERATION:		GROUP	1-07	0-62	ONNO	PROF	AGAT	ION													- 7	MEGA	9	9	
Frequency band numbers Freque	AIRCRAFT			a .		3	ш	TION UISE 2.3	POW X RP		1.75 KND			E C	TEOR	REL RE	H	"" 8	60			PROFI	000E	803	
75 76 76 82 88 91 88 89 22 90 93 93 92 93 92 93 93 91 89 87 84 82 77 77 74 74 79 86 89 86 86 91 88 91 91 91 91 91 91 91 91 91 91 91 91 91	SLANT DISTANCE (FEET)	1.67	18	19	20	12		23		52	. ~ ~	UENC 27	1 20		• til	27	8		,						
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47 45 43 47 52 54 51 51 60 61 65 67 64 63 61 59 56 50 42 35 21 42 40 38 41 44 40 40 40 48 51 57 56 53 49 44 34 25 31 44 34 36 35 35 43 46 57 55 53 49 44 36 23 34 46 47 55 53 49 44 36 23 44 46 55 53 53 49 44 36 23 34 46 47 49 46 41 36 23 34 46 47 49 46 41 36 28 15 11 49 49 46 41 36 49 49 46 41 36 48 41 36 48 41 36 48 41 36 48 41 46 <t< td=""><td>2500</td><td>51</td><td>64</td><td>94</td><td>51</td><td>25</td><td>66</td><td>96</td><td>96</td><td>,</td><td></td><td>6</td><td></td><td>2</td><td></td><td>0</td><td>S</td><td>2</td><td>1</td><td>9</td><td>σ</td><td>M</td><td></td><td>9</td><td></td></t<>	2500	51	64	94	51	25	66	96	96	,		6		2		0	S	2	1	9	σ	M		9	
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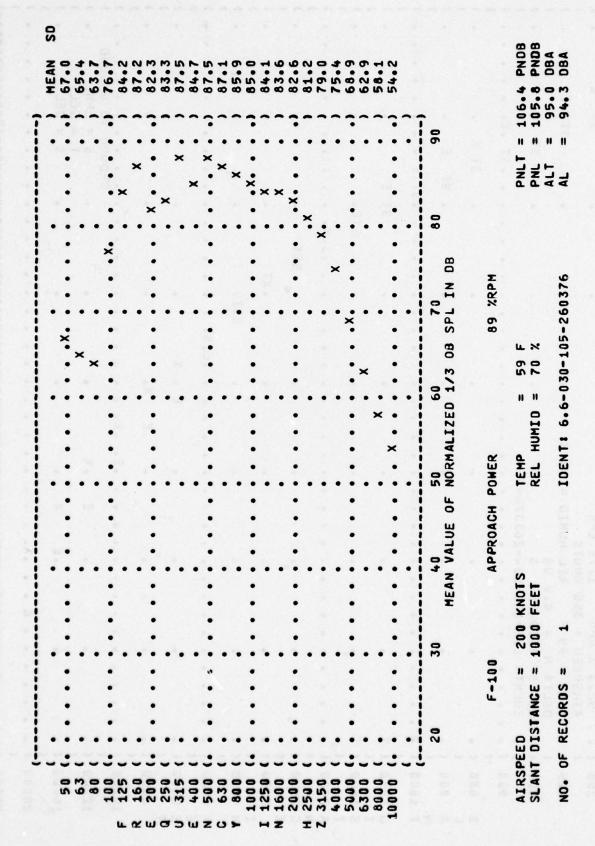
* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS! 8 * BAND WHICH DETERMINES THE TONE CORRECTION (C).

I-ONODA9	GROUND-TO-GROUND P	ROPAGATION					•	OMEGA 6.6
AIRCRAFT: F-130		(OPERATIONS (CRUISE POWER (92.3 % RPM	OWER 1.75	E P R	METEOROLOGY TEMP REL H	Y: HUMID =	59 F)	A/C CODE: 030 OPS CODE: 104 PROFILE VER:
		(AIRSPEED) = 350 KNOT	118	DELTA N =	0.0 De	^ ^	26 MAR 76 PAGE M3
SLANT DISTANCE	AL	ALT**	PNL	PNLT**		SEL	SELT**	EPNL**
(FEET)	(D8A)	(DBA)	(PNDB)	(PN08)		(00)		(EPNOB)
200	102.8	103.5	115.8	116.6		6.66	-	104.2
250	100.6	101.3	113.6	114.3		98.7		102.9
315	4.86	99.1	111.3	115.1		97.5		101.7
204	96.1	6.96	109.0	109.7		96.3		100.3
520	93.0	94.6	106.5	107.2		95.0	96.2	8.96
3 0 8	C - T - T	3.56	101.3	1040		000		3.70
	•	0.60	7.161	6.101		3.36		6.66
1000	86.5	87.2	8	99.0			91.	93.7
1250	83.9	84.6	3	96.0		6	.06	91.6
1630	81.1	81.9	4	95.6		7.	88.	89.2
2000	78.3	79.0	86.3	89.0		85.4	96.6	9.98
2500	75.2	76.0	4	85.1		3.	84.	83.7
3150	71.9	72.6	0	80.9		-	82.	80.5
4000	68.2	08.8	3	76.2			79.	16.8
2000	64.1	9.49	3	71.3		5	76.	72.7
6300	2.65	59.6	S	60.0		1:	72.	68.3
8000	55.4	55.5	-	61.4			68.	9.49
16006	50.8	50.8	56.4	56.4		;	64.	
12500	45.8	45.8	50.8	50.8		;	.09	
16000	40.3	40.3	44.8	44.8		56.5	5.95	50.9
20000		34.4	37.0	37.0		-	51.	
3500						,		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

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250 (.	F-100	PH	1.75	POWER				•	•	
315 (.	TENP :	= 59 F	5 0	HUNIO =	7 0 %	Dr. GChall		92.00	JV.	
. 9 004	NO. OF RE	RECORDS:	0 00 1	260376-A		* # # # # # # # # # # # # # # # # # # #			. SI	
. 5 005						•	•	•	15	•
		•				•			. ST	W
800 (7	•	HALL WAR		THE PARTY	100 TN 2		78-03 H	. ST E	
1000 (.				:	:		•	•	ST E .	•
1250 (.		ы 'ю к 1				* *		•	ST E	
1600 (.	*	. •	•			•		•	STE.	
2000 (.		•			•			S. X.	• • • • • •	•
2500 (.			•			•		. SET		
3150 (.		•						TX.	36,36	
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2000 (E.ST .	•		•
6300 (.		. • .	•			Х			×	
8000 (ω.	*			•	
10000				•	.EX		:		CHUIND	TO GROUND
12500 (.		. •	•	(L)	×	•				" "
16000 (.			• E	×		•				111
20000 (.		•	×.		:		:			
25000 (3.D	0.5	X 50		6.0	7.0		0.8	60	100



	AIR-	10-6	AIR-TO-GROUND	•	OPAG	ATI	z														OMEG	•	9.9	
AIRCRAFT	F-100					OPER A	H PA	1 × 0	20 HE	R KNOT	ST0			1 1	TEMP TEMP REL HU	6 4 LONI	10 0	59	F %	7	A/C OPS PROF 26 H	CODE CODE FILE HAR 7	S E E	30 05 8 A
SLANT DISTANCE (FEET)	11	18	61	50	21	22	23	24	25	FRE 26	QUENCY 27 28	CY B	AND 29	NUMB	31	32	8	34	35	36	37	99	68	3
200	81	79	78	91	98	101	26	98	102			102		100	100	100	66	66	86	96	91	88	88	6
250	19	11	76	89	96	66	95	96	100		100	100		98	0	6	16	96	95	16	88	85	85	80
315	11	15	14	87	76	26	93	16	98	95	98	98	16	96	95	95	98	36	93	91	85	82	82	80
004	75	73	72	85	92	96	9.0	92	96	93	96	96		16	93	93	93	92	91	88	83	62	78	•
200	73	71	20	83	90	93	88	89	16	91	46	76		95	91	91	90	68	88	85	80	92	12	75
630	7.1	69	99	81	88	91	86	87	95	89	92	91		96	89	89	88	87	85	82	92	72	69	9
009	69	29	99	62	86	89	94	85	9.6	87	90	68		87	87	86	85	4 8	82	13	73	89	49	9
1000	29	69	19	11	84	87	. 82		88	85	88	87	98	85	84	9 4	83	81	19	75	69	63	58	2
1250	69	63	62	75	82	85	80	81	85	83	85	85	84	83	82	81	80	78	15	7.1	49	25	51	*
1600	63	61	9	73	80	83	7.8		83	80	83	83	81	80	19	78	11	75	72	29	66	51	42	m
2000	61	66	58	11	78	81	92		81	78	81	80	62	77	92	75	73	7.1	29	61	53	43	32	-
2500	66	25	96	68	16	62	14		62	92	18	78	92	75	73	72	7.0	29	62	52	94	34	20	~
3150	25	55	53	99	74	11	72		92	73	92	15	73	72	70	99	99	62	96	48	38	23	5	
0004	55	53	51	49	72	74	69		14	11	73	72	20	89	99	49	61	26	20	39	28	10		
2000	53	51	64	62	69	72	19		72	68	20	69	29	69	62	29	96	20	45	53	16			
6300	51	64	14	99	29	7.0	69		69	69	29	99	63	61	58	24	64	45	32	16	8			
8000	48	14	42	28	69	19	62		99	95	49	9	29	26	25	48	45	33	21	н				
10000	94	45	43	55	62	9	9			65	9	28	55	51	46			22	1					
12500	44	42	40	53	9	62	25			99	96	24	64	45	39			6						
16000	42	40	38	20	57	9	54			51	52	48	43	38	31	22	10							
20000	40	38	35	48	55	57	20	20	55	14	47	42	36	59	21									
3600		-																						

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

* BAND WHICH DETERMINES THE TONE CORRECTION (C).

ATPLICA	GOGO CHICAS-OT-STA	ACATTON					~ -	OMECA C C
		MOTITOR						0464 040
AIRCRAFT: F-100	TII NII	(OPERATION: (APPROACH POWER (89 %RPM	POWER		METEOROLOGY TEMP REL HI	UMIO =	59 F)	A/C CODE: 030 OPS CODE: 105 PROFILE VER: A
		(AIRSPEED) = 200 KNOTS	TS)	DELTA N =	0.0 08	20	26 MAR 76 PAGE I1
SLANT DISTANCE	AF.	ALTON	PNL	PNLT**		SEL	SELT**	EPNL **
(FEET)	(08A)	(DBA)	(PN08)	(PN08)		(08)	(08)	(EPNDB)
200	110.2	110.9	123.0	123.6		107.7	108.8	112.3
250	108.1	108.7	120.7	121.4		106.6	107.7	1111.1
315	105.9	106.6	118.4	119.1		105.4	106.5	109.8
004		104.3	116.1	116.7		104.2	105.3	108.4
200	101.4	102.1	113.7	114.3		102.9	104.0	107.0
800	2.96	4.76	108.5	109.2		100.2	101.3	103.9
1000	94.3	95.0	105.8	106.4		98.8	666	102.1
1250	91.8	95.5	0	103.5		97.3	98.4	100.2
1600	89.2	6.68	99.8	100.4		95.7	8.96	98.1
2000	86.5	87.2	9.96	97.3		0.46	95.1	0.96
2500		84.4	93.5	94.2		92.2	93.3	93.9
3150	80.8	81.5	90.	91.1		90.3	91.4	91.8
0004	17.8	78.3	87.2	87.7		88.2	89.1	89.3
2000		75.0	83.8			86.1	86.7	86.7
30	71.2	71.5	80.3	80.5		83.7	84.2	84.0
9008	•	67.8	1.91	•		:	81.4	81.1
10000	64.0	0.49	72.9	72.9		78.5	8	78.2
12500		60.1	689	689		15.6	2	75.1
16000		6.55	9.49	;		72.4	72.4	71.8
20000	51.6	51.6	29.9	6*65		69.1	69.1	68.2
2000	1.7	4.7				-		61. 4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

DELTA N = 0.0 D8 NO. OF RECORDS: 1 IDENT: 6.6-030-105-260376-A IDENT: 6.6-030-105-260376-A NO. OF RECORDS: 1 IDENT: 6.6-030-105-260376-A NO. OF RECORDS: 1 IDENT: 6.6-030-105-260376-A NO. OF RECORDS: 1 NO. OF RECOR	* * * * * * * * * * * * * * * * * * *
SORDS: 11 SORDS: 12 S-030-105-260376-A S-030-105-26	× × × × × × × × × × × × × × × × × × ×
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F-100 89 XRPH	200	NO. OF REC								٠		•		•	•		The second	035 046 05 05 05 05 05 05 05 05 05 05 05 05 05		
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ST .E	W		E		•					٠		•				• -		= SEL		-

	GROU	NO-1	0-6R	GROUND-TO-GROUND	3 8	OPAGATION	AGATION	?													OMEGA	OMEGA 6.6	9	
AIRCRAFT	F-100	0				OPER A A	ATIO PPRO 89 IRSP	ACH ACH EED	0 WE	A D	218		20000	METEOR DELTA	TEOROLOGY OF TEMP REL HL	! . E	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	707	u %		A/C OPS PROF 26 H	CODE CODE ILE	# 103 VER#	0 K 4
SLANT DISTANCE (FEET)	11	18	19	20	21	22	23	24	52	FREG 26	QUENCY 27	0 0	AND 29	30	3.1 3.1	32	33	34	35	36	37	90	36	3
200	92	72	27	98	93	96	90		95	95	95	95		95	93	95	94	94	93	91	9 10	809	803	
400	223	289	69	86	84	2 2 3	8 2 2		910	988	93	93		89	9 69	9 8 9	D 60 0	60	9 9 9	9 60 60	5 00 U	:::	223	
800	999	64	63	282	80	9 2 2	77	19	85	82	85	86	8 9 0	822	82	81	8 9 3	43	188	14.	212	63.5	200	57
1250	60	58 60	56	102	222	79,	72 75		79	80 78	83	82		80 78	27	76	75	73	22	20	200	529	53	440
2500 2500 3150	222	4 t 2 2	1213	200	62 62	60 60 60	2000		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	69	23 29 29 29 29 29 29 29 29 29 29 29 29 29	2222		72 02 20	71 21 68 65	63	68	66 57 57	52 22 21	50 50 70 70 70	344	1888	12 50	J
4000 5000 6300 8000	4 W W W	33 29 27 27	34 25 25 23	45 36 34	£ 4 4 2 5 4 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2522	33	M T T N	1 1 3 3	6 2 2 3	24 22 24 24	2850	65 61 57 53	63 56 51	£3 £3 £4	40 t 20 t	37 44 37	51 45 37 28	45 27 16	17 5 4 7	11	w		
10000 12500 16000 20000 25000	22,48	25 22 20 18 18	13 19 17 17 17 17 17 17 17 17 17 17 17 17 17	2,563	35 35 30 30 30	34 44 8	34 34 34 34 34 34 34 34 34 34 34 34 34 3	22322	33487	32 32 32 32 32 32 32 32 32 32 32 32 32 3	37 46	340 46	9848	40 33 33 55 55 55 55 55 55 55 55 55 55 55	41 26 16 16	36 17 17	7 P B B	t 7	N					

(* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

GROUND-TO-GROUND		PROPAGATION						OMEGA 6.6
AIRCRAFT: F-100		C OPERATIONS C APPROACH POWER C 89 XRPM	IS ICH POWER ZRPH		HETEOROLOGY: TEMP REL HU	# CIMOH	59 F	A/C CODE: 030 OPS CODE: 105 PROFILE VER: A
		(AIRSPEED) = 200 KNOTS	TS	DELTA N =	0.0 08		26 MAR 76 PAGE M1
SLANT DISTANCE	Ar.	ALT**	PNL	PNLT**		SEL	SELT**	EPNL **
(FEET)	(DBA)	(DBA)	(PNDB)	(PN08)		(60)	(08)	(EPNDB)
200	105.2	105.9	118.0	118.6		102.7	103.8	107.3
250	103.1	103.7	115.7	116.3		101.6	102.6	106.0
315	100.9	101.5	113.4	114.0		100.4	101.5	104.7
004	98.7	99.3	111.1	111.7		99.5	100.2	103.4
500	4.96	97.0	108.6	109.2		97.9	0.66	101.9
900	91.7	92.3	163.3	103.9		95.2	96.3	9.86
62.0								
1000	89.2	89.9	100.4	101.1		3	94.8	8.96
1250	. 86.7	87.3	97.3	98.0		0	93.2	2.46
1600	84.0	94.6	0.46	94.6		90.5	91.5	92.3
2000	81.2	81.8	90.5	91.2		æ	89.8	8.69
2500	78.2	78.8	87.0	87.6		9	87.8	87.3
3150		75.6	83.0	83.6		84.4	85.5	84.3
0004	71.3	71.8	7.87	79.2		-	82.6	80.8
2000		67.5	74.0	;		8	79.3	76.8
6300		65.9	689	69.1		S	15.6	72.5
9008	58.5	58.7	64.5	;		~	72.2	68.9
10000	54.0	54.0	59.8	59.8			68.5	65.0
12500	49.1	49.1	24.7	24.7		;	9.49	61.0
16000	43.7	43.7	49.2	49.2			60.2	56.4
20000	37.8	37.8	45.5	45.5		55.3	55.3	50.7
2000	24 7	21 2	24. 7	71. 7		0	1.0.1	1.3 6.1

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

-	101-4	2	ESEC YLLE	LONER					
250 (. AIR	AIRSPEED = 2	200 KNOTS			•	•		. ST E
315 (· TEN	59 F	REL HUMID	10 = 70 %		•	٠	S	ST E
004	. NO.	RECOR	4	260376-0	•	•	٠	ST	W
200 (•			•		ST.	E
630 (•			•	•	•	ST E	a a a
800 6			•			•	•	ST E.	
1600	•		***	•	:	•	•	. ST.E.	
1250 (•	•					ST E	
1600 (•	•	•	2.		•	S	· ×	
2000 (:			:			Sx		
2500 (•		•		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	P	× .		
3150 (•	3	•		. xT			
0000	•	٠	•	•		.EST	•		
2000	:		•	:	•	. E. X.			•
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12500 (5	0.0000000000000000000000000000000000000	105-101-05	iu.	×	•	٠	11 11	EPNL SFI T
16000 (×	•	•	•		EL.
20000			E	x	•		•		
25000 (-	3	X						

F-1000 AIRCRAFT F-1000 AIR F-1000 AIRCRAFT F-1000 AIR F-1000 AIRCRAFT F-1000 AIR		SION		OURI	0	POWER SETTING	53% RPM	FOR EACH POWER SETTING,	NORMALIZED DATA AS A FUNCTION ON NORMALIZED SPL AT 250 FEET NOISE LEVELS AS A FUNCTION OF A	FEKCELVED NOISE LEVEL TONE-CORRECTED PERCEIVED NOIS: A-WITCHTEN OVERAIL SOUND IEVEL	TOWELCORRECTED, A-WEIGHTED OVERALL NOISE LEVELS AS A FUNCTION OF ANGLE AT		A E R O S P A C E A A E E O	F-1000 AIRCRAFT F-1000 AIR
AIRCRAFI AIRCRAFI AIRCRAFI		SE PRODUCED ON THE GROUND BY	F-1000 AIRCRAFT	DURING GROUND RUN-UP OPERATIONS	TEST 74-004-019 ARCKAFT CODE: 030 POFILE VERSION: A COMPUTER PROGRAM OMEGA			G, THE FOLLOWING DATA ARE PROVIDED:	IZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY SMALLIZED SPL AT 250 FEET LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE	LEVEL PERCEIVED NOISE LEVEL 11. SOUND LEVEL		19 DEC 75	ICAL RESESON AIR F	AIRCRAFT
F-1000 F-1000 AI		GROUND BY	le T	PERATIONS	-019 030 A A EGA 8.2			ATA ARE PROV	AND FREQUENC DISTANCE FF	EL	SOUND LEVEL 250 FEET FROM SOURCE		40 50 EE	F-1000 AI
AIRCRAFT AIRCRAFT						PAGE	42-47 48-53 54-59 60-65	/IDED:	SY SOM SOURCE		OM SOURCE		A S E . A T O R B	AIRCRAFT
F-1000 F-1000													≻ 0	F-1000
AIRCRAFT AIRCRAFT AIRCRAFT												San Alle		AIRCRAFT

	1/3 OCTAVE DISTANCE =	BAND 250	FEET													OMEGA TEST 7	OMEGA 6.2 TEST 74-004-01	-019	
NOISE SOURCE/SUBJECT F-1JOD AIRCRAFT ENG. JS7-P-21A GROUND RUNUP	SUBJECT VIRCRAFT 21A JP	-		OPER	ERATION: FOLE, 53% RP SINGLE ENGIN	SX RPH ENGINE	ΣW			METE TEP BAN BAN DELT	METEOROLOGY: TEMP BAR PRESS REL HUMID DELTA N = 0		9.92 70 0 08	Z Z	1	AIRCRAFT OPERATION PROFILE V 19 DEC 75 PAGE C1	_ w	CODE CODE	030 01013 A
BAND CENTER FREQ (HZ)	9	10	20	36	9	50	3	A D L	NGLE (E E	ES)	110	120	130	140	150	160	170	180
20	>99	624	624	684	62<	634	9	62		>49	94	63	99	99	68	69	99	63	19
63	999		624	684	624	634	9	>49	~	>49	654	>59	68	68	68	69	999	61	99
90	>99		95	68 <	29	63	65	69		49	99	99	20	20	69	69	49	90	9
100	99		19	89	69	20	72	7.1		20	7.1	73	92	16	14	73	65	584	63
125	29		29	89	99	65	69	69		89	20	72	73	73	72	20	634	224	62
166	6.0		02	0.2	99	69	72	7.1		73	52	92	62	21	15	72	614	554	61.
250	62	***	60	90	804	60	60	2 9	25	2 2	2,5	22	22	22	17	69	284	744	200
315	9		202	89	69	69	70	69		2.2	73	22	12	92	7.1	65	534	514	57
97+	69		20	7.1	11	69	72	72		72	25	75	11	16	72	99	51	*64	26
200	69		72	74	72	7.0	73	7.1		72	14	73	11	73	7.1	9	20	*84	52
630	69		20	69	69	29	19	29		69	7.1	72	71	72	69	65	48	*94	24
900	69	11	7.1	72	89	69	29	99		29	99	99	72	69	69	49	48	454	51
1000	6.8		19	68	29	7.1	95	19		65	99	20	72	69	68	69	64	43	47
1250	29		89	7.1	19	7.8	89	10		40	69	89	73	89	69	49	51	*	46
1600	7.4		73	99	29	61	49	29		61	62	63	72	29	69	63	47	0 4	94
2000	72		4.2	20	71	61	69	63		09	65	62	69	69	63	62	84	41	45
2536	92		11	92	11	7.1	72	69		99	11	69	14.	69	99	99	52	94	52
3150	73	92	72	75	71	20	29	49		69	69	89	72	29	69	62	20	43	94
9004	73	14	74	22	69	7.1	68	61		19	65	99	69	49	69	63	20	4 3	43
5000	7.1		7.0	29	69	63	69	99		95	63	65	68	19	49	63	20	43	42
6300	9	19	99	68	63	61	62	58		61	61	62	29	9	63	63	64	45	41
9000	9	+9	9	62	9	9	09	20		58	09	61	+9	61	09	66	94	39	38
10000	9		09	66	99	24	55	55		99	25	09	62	29	29	25	45	36	37

XXX = EXTRAPOLATED OR INTERPOLATED SPL

) OME	OMEGA 8.2	2	
	AS A	AS A FUNCTION OF		ANGLE A	AND DIS	DISTANCE	FROM SOURCE	OUSCE								TES	24-0	04-019	
NOISE SOURCE/SUBJECT: F-1000 AIRCRAF ENG. J57-P-21A	ISE SOURCE/SUBJECT: F-1000 AIRCRAFT ENG. JS7-P-21A	JBJECT AIRCRAI	- 11		OPER	OPERATION: IOLE, 53% RPM SINGLE ENGINE	3% RPH ENGINE			200	METEOROLOGY I TEMP BAR PRES	PRESS	= 59	9 F 2 IN HG		AIRC OPER	AIRCRAFT CODE OPERATION CODE PROFILE VERSION	CODE	030 01013
GROU	IND RUN	4								• •	REL DELTA N	O HOLE		×) 19 (19 DEC 75 PAGE 01		
DISTANCE (FLET)	3	3	26	8	3	50	9	7.0	ANGLE	1	(DEGREES) 90 100	110	120	130	140	150	160	170	180
200	99.6	10101	100.3	99.7		90.4	36.5	93.7	92.7	93.3	96.2		1001	96.4	94.2	93.4	79.5	73.4	79.
250	97.6			4.76	97.1	94.1	94.3	91.5	90.6	91.0	94.6	93.8	97.9	94.2	91.9	91.1	77.2	71.1	77.6
315	95.3					91.7	95.0	83.2	88.1	88.7	91.7		92.6	91.9	89.5	88.8	74.8	68.7	75.
+00	92.9					89.5	89.0	80.8	45.7	86.3	89.3		93.2	89.5	87.0	86.4	72.3	66.3	72.
200	90.3	91.6	97.0			86.6	87.1	84.3	83.3	83.8	96.8		200	87.0	84.5	83.8	69.8	63.7	2
230	10/0					84.0	84.5	81.7	90.0	81.1	2.49		80.1	***	81.9	81.2	67.0	900	
950	6.40	86.3	4 2 4	8 + 9		81.4	81.7	19.0	77.9	78.4	81.4		85.3	81.7	79.1	18.4	2.49	57.7	94.
1000	82.0				81.6		78.8	76.1	75.0	15.4	78.5	78.3	82.4	78.8	76.1	15.4	61.0	54.4	61.
1250	78.8				78.5		75.7	73.0	72.1	72.3	75.4	75.2	79.3	15.8	72.9	72.2	57.4	9.05	58.
1600	75.4		75.9	75.3	75.1	72.7	72.3	9.69	69.1	69.5	72.0	72.2	15.9	72.9	69.8	68.8	53.5	46.2	24.7
2003	71.6				71.4		68.6	69.69	6.69	0.99	68.6	69.3	72.3	2.69	66.5	65.0	48.8	41.5	50.
2500	67.5				67.3		4.40	61.7	61.9	62.0	9.40	65.0	68.3	65.7	65.5	9.09	43.5	35.1	45.
3150	62.8	64.3			52.7		59.8	57.1	57.4	57.8	60.3	60.5	64.1	61.3	58.0	55.8	36.5	27.7	39.
0004	57.8				57.5		54.5	52.2	55.5	6.29	52.5	52.5	9.69	56.2	53.5	20.0	28.3	17.6	32.
5000	52.0	52.9			51.3		6.84	45.6	47.2	47.6	50.5	49.8	24.4	50.6	47.3	43.0	15.5	7.4	22.
6300	45.7				43.9		42.8	40.3	40.8	41.3	44.3	43.8	48.9	44.5	40.8	36.1	2.8		6
9999	38.1	38.9			39.2		37.7	35.1	35.7	36.2	39.5	38.4	43.8	39.5	35.7	30.0			
10000	30.6		33.1	33.	31.5	33.7	30.6	28.7	29.6	30.0	33.2	33.0	38.1	33.5	29.1	21.0			
12500	19.5			56.	23.4	54.9	9.47	21.9	23.2	23.6	27.2	27.0	32.3	27.9	21.0	9.6			
16000	7.7			17.	12.1	9.8	15.2	10.7	13.7	13.9	19.2	17.2	25.0	18.0	10.4				
20000					6.		6.6		4.3	4.3	7.7	7.4	14.8	8.2					
25000													,						

	AS A	AS A FUNCTION	N OF	OF ANGLE A	IND OIL	AND DISTANCE	FROM SOURCE	OURCE								DOMEGA	A 8.2	74-004-019	
NOISE SOUR	E SOURCE/SUBJECT: F-1000 AIRCRAFT ENG. JS7-P-21A GROUND RUNUP	AIRCRAF	_=		OPER	OPERATIONS IDLE, S SINGLE	53% RPH ENGINE			2000	METEOROLOGY I TEMP BAR PRES REL HUMI	PRESS HUMID	= 59 =29.92 = 70	9 F 2 IN HG		PROFE	RUN 01 AIRCRAFT OPERATION PROFILE VI 19 DEC 75 PAGE E1	CODE CODE ERSION	030 01013 A
DISTANCE (FEET)	•	97	20	e m	9	50	69	2	ANGLE 80		(DEGREES)	110	120	130	140	150	160	170	180
200	100.8	162.3	101.8	101.1	101.4	100.5	98.3	95.4	93.8	4.46	97.3	97.5	101.5	97.1	6.46	95.5	80.5	74.7	83.1
250	98.6				99.1	98.2	1.96	93.2	91.5	92.1	95.1	39.5	99.3	6.46	95.6	93.2	78.2	72.4	80.6
315	96.3	97.7			96.8	95.8	93.8	6.06	89.5	89.8	95.8	92.9	97.0	95.6	90.2	90.0	15.8	20.0	78.5
- c	91.3	92.8	22.3	4. 6	0 10	200	91.0	86.0	0000	10 78	90.0	2000	94.0	90.0	96.2	9 P. S	200	64.0	72.
530	88.7		89.7		89.3	88.2	86.3	83.4	81.7	82.2	85.3	85.4	89.5	85.1	82.6		68.1	62.1	71.0
909	85.9		86.9		86.6	85.5	83.5	2.09	19.0	19.5	82.5	82.6	86.7	82.3	8.62	90.4	65.2	29.0	68.8
10.00	ARAG	4	84.0	7.78	A. 7		4.08	77.8	76.1	76.5	79.6	79.7	A 3. A	70.4	76.8	77.5	62.0	5.6.6	65.
1250	79.8				80.5	29.9	77.5	74.7	73.2	73.4	76.5	76.6	80.7	76.5	73.6	74.3	58.4	51.8	61.7
1600	76.4	78.	77.4		77.2		74.1	71.3	70.2	70.3	73.1	73.5	77.3	73.5	70.5	70.8	54.5	47.5	58.0
2000	72.6		73.7		73.4		70.4	9.19	67.0	67.1	69.7	70.4	73.7	10.07	67.2	67.0	49.8	42.8	53.
2500	68.5	70.1	69.0		69.4		66.2	63.4	63.0	63.1	65.7	4.99	2.69	4.99	63.2	62.7	44.5	36.3	48.7
3150	63.8		65.0		64.8		61.6	58.9	58.5	58.9	61.5	61.9	65.5	62.0	58.7	57.8	37.5	29.0	45.5
0004	58.6		59.8		59.1		6.55	53.5	53.4	53.8	900	9.95	2.09	26.7	53.7	51.7	29.1	18.6	34.8
2000	52.6		53.3		55.5		50.0	47.6	47.0	48.2	50.9	2005	55.3	51.0	47.7	44.2	16.1	8.2	24.5
6300	46.1	46.2	46.0		44.7		43.5	41.0	41.2	41.8	1.44	44.3	49.5	44.8	41.1	37.0	3.2		10.4
8000	38.3	39.1	39.7		38.6		38.0	35.5	35.9	36.4	39.4	38.7	***1	39.6	35.8	30.4			
10000	30.6	32.3	33.1	33.3			30.6	28.7	29.6	30.0	33.2	33.0	38.1	33.6	29.1	21.0			
12500	19.5		24.8			24.9	24.6	21.9	23.2	23.6	27.2	27.0	32.3	27.9	21.0	9.6			
16000	7.7		14.7	17.1	12.1		15.2	10.7	13.7	13.9	19.2	17.2	25.0	18.0	10.4				
20000			4.6		6.		5.9		4.3	4.3	7.7	7.4	14.8	8.2					
25000													7						

	AS A	AS A FUNCTION OF ANGLI	N OF A	ш	AND DIS	DISTANCE	FROM S	SOURCE) OMEGA	OMEGA 8.2 TEST 74-004-019	04-019	
010	E SOURCE/SUB-	RCE/SUBJECT: U AIRCRAFI JS7-P-21A D RUNUP			OPER	OPERATIONS IDLE, S SINGLE	53% RPH E ENGINE			2000	METEOROLOGYS TEMP JAR PRES REL HUMI DELTA N =	PRESS HUMIO	= 59.92 = 29.92 = 70	20 IF HG		PROFES	CRAFT CRAFT RATIO FILE DEC 7	CODE CODE RSION	030 01013
DISTANCE (FEET)	0	10	56	30	3	5.0	69	2.0	ANGLE		(DEGREES) 90 100	110	120	130	140	150	160	170	180
200	86.0	86.9	86.0		84.5	84.2	81.7	79.0	78.7	79.3	81.8	82.1	1.58	82.4	79.9	78.0	64.1	58.6	64.
250	83.8		83.7		82.3	82.1	5.62	16.9	76.6	77.2	19.7	6.62	83.5	80.3	77.77	15.8	61.9	56.5	62.
315	79.1	4.28	79.1	7 7 7	77.7	77.6	77.3	7.4.7	74.4	75.0	77.5	77.7	81.3	78.1	75.5	73.5	59.7	54.3	60.1
200	7007	77.6	76.7		75.3	75.3	72.7	70.2	70.0	76.5	73.0	73.3	76.8	73.7	71.0	6.8.8	55.0	49.7	55.
630	74.2	75.1	74.2		72.9	73.0	70.3	6.29	67.7	68.2	70.7	20.9	74.4	71.4	68.6	66.4	52.5	4.7.4	53.
900	71.6	72.4	71.6		70.3	9.02	67.8	65.5	9.59	65.8	68.3	68.6	72.0	69.1	66.2	63.9	6.64	6.44	20.
1300	0.8.8	2.69	68.8		67.6	68.1	65.2	63.0	63.0	63.4	65.8	66.1	69.5	66.7	63.7	61.2	47.2	42.4	48.
1250	999	66.8	66.1		64.7	65.5	62.0	60.4	60.5	6.09	63.3	63.6	6.99	64.1	61.1	58.5	44.4	39.7	45.
1600	65.9	63.7	63.1		61.8	62.8	59.8	57.8	57.9	58.3	9.09	6.09	64.2	61.5	58.5	55.7	41.5	36.9	43.0
2000	59.7	4.09	60.0		58.6	59.9	6.95	55.0	55.3	99.66	57.9	58.5	61.5	58.8	55.7	52.7	38.4	34.0	*0
25.0	56.3	6.99	9 .95	56.2	29.5	56.9	53.7	51.9	52.2	55.5	54.8	55.1	58.3	55.6	52.7	49.6	35.0	30.8	36.
3150	55.5	53.1	55.9		51.5	53.6	50.1	48.4	48.7	49.1	51.3	51.7	6.46	55.5	49.3	46.1	31.4	27.3	33.
0004	48.5	49.1	0.64		47.5	50.1	46.2	9.44	44.8	49.4	47.4	47.9	51.1	48.4	45.5	45.4	27.5	23.4	29.3
5000	0.44	44.6	44.5		43.0	46.1	41.8	40.3	49.6	41.2	43.1		6.94	44.1	41.4	38.3	23.4	19.5	25.
6300	39.1	39.8	33.8		38.3	41.8	37.3	35.8	36.1	36.7	38.6	39.3	45.5	39.6	37.0	33.8	18.9	14.8	20.
90.00	34.4	35.4	35.4		34.1	37.2	33.3	32.1	35.4	33.0	35.0		38.5	35.8	33.1	29.7	14.8	10.9	16.
10000	49.67	30.7	30.9	31.6	29.7	32.1	29.5	28.0	28.5	29.0	31.1	31.4	34.3	31.7	28.9	25.2	10.4	6.9	12.
12500	24.3		26.1	-	25.0	26.4	24.7	23.7	24.2	24.7	26.8	26.9	29.7	27.3	24.4	20.5	5.9	2.5	8
16000	18.8		50.9	21.8	20.0	20.3	19.9	18.9	19.6	19.9	22.1	22.1	24.8	22.5	19.5	15.3	1.3		3.9
20000	13.0		15.3	-	14.5	13.9	14.7	13.7	14.4	14.7	17.0	16.8	19.5	17.3	14.3	9.8			
25000	1.7		0				•		0						,				

SOUNCE/SUBJECT: G. J57-P-21A G. J57-P-21A OUND RUNUP 87.0 68.1 87.5 87.0 84.8 85.9 85.3 84.8 82.5 83.6 83.3 82.5 80.1 81.2 84.7 80.1 77.7 78.8 78.2 77.7 75.2 76.3 75.2 76.6 73.6 77.5 69.8 67.0 68.0 67.0 67.0 63.9 64.9 70.5 69.8 66.1 66.1 64.0 67.1 68.0 67.0 67.0 67.2 61.6 61.5 60.9 67.3 58.1 58.1 57.6 57.3 58.1 58.1 57.6 57.4 64.5 54.0 44.6 45.3 45.5 46.4	OPERATION: IDLE, 53% RPH SINGLE ENGINE SINGLE ENGINE 80.6 88.3 83.5 84.3 86.2 81.3 84.3 86.2 81.3 79.8 81.7 76.8 77.4 79.4 74.5 74.9 77.1 72.1 72.3 74.7 69.6	3% RPH ENGINE 60 7u 83.5 80. 81.3 78. 79.1 76.		200	METEOROL OGY		-	-		NO.	AFT CODE	
47.0 68.1 87.5 87.0 84.8 85.9 85.3 84.8 85.9 85.3 84.8 80.1 81.2 84.7 80.5 87.7 77.7 75.2 75.3 75.8 77.7 77.6 77.6 77.6 77.6 77.6 77.6 77		0777			TEMP 3AR 3AR REL DELTA N	SS OI	= 59.92 = 29.92 = 70	F 11 %		AIRCRAFT OPERATION PROFILE VE 19 DEC 75 PAGE G1	LON CODE E VERSION 3.75 61	E 030
87.0 68.1 87.5 87.0 82.5 83.6 83.3 84.8 80.1 81.2 81.7 80.1 75.2 76.6 78.2 77.7 72.6 73.6 73.2 77.2 72.6 73.6 73.2 77.5 63.9 64.9 64.6 64.0 60.7 61.6 61.5 60.9 60.7 61.6 61.5 60.9 61.3 58.1 58.1 57.6 53.5 54.3 54.5 54.0 44.6 45.3 45.5 45.4		0 M + 8 1	ANGLE 80		OEGREES)	110	120	130	140 1	150 1	160 170	180
64.8 85.9 85.3 84.8 80.1 82.5 81.2 81.7 80.1 82.5 77.7 77.7 78.8 78.2 77.7 77.7 77.6 77.6 77.7 77.7 77.6 77.6 77.7 77.7 77.6 77.6 77.7 77.7 77.6 77.6 77.7 77.7 77.7 77.6 69.8 75.2 77.5 69.8 67.0 64.0 64.0 67.0 67.0 67.0 67.0 67.0 67.0 67.0 67		m = m	1		83.0					_	-	•
62.5 83.6 83.1 82.5 80.1 82.5 80.1 81.2 81.7 81.1 75.2 78.6 73.2 75.2 75.2 72.5 73.6 73.2 75.2 75.2 75.2 75.2 75.2 75.2 75.2 75			.6 77.7	78.3	80.8	81.3	6.48	6008		77.8 6	62.9 57.	7 65.5
80.1 81.2 84.7 80.1 77.7 78.8 78.2 77.7 75.2 76.3 75.8 75.2 72.6 73.6 73.2 72.5 63.9 64.9 67.0 67.0 61.7 61.6 61.5 61.9 57.3 58.1 58.1 57.6 53.5 54.3 54.5 54.0 44.6 45.3 45.5 45.4 49.5 45.4 40.6			*		78.6				~	9	2	10
77.7 78.8 78.2 77.7 77.7 78.8 78.2 77.7 72.6 73.6 73.6 73.2 75.2 72.5 63.9 64.0 67.0 67.0 67.0 67.0 67.0 67.0 67.0 67			2		16.4					M	2	2
75.2 76.3 75.8 75.2 72.5 72.6 73.6 73.2 72.5 69.8 67.0 68.0 67.0 67.0 67.0 67.0 67.0 67.0 67.0 67		•	6		74.1				_	6		
72.6 73.6 73.2 72.5 69.8 70.9 70.5 69.8 67.0 68.0 67.0 67.0 63.9 64.9 64.6 64.0 66.7 61.6 61.5 60.9 57.3 58.1 58.1 57.6 53.5 54.3 54.5 54.1 44.6 45.3 45.5 49.9		_	9						2	*	2	9
69.8 70.9 70.5 69.8 67.0 67.0 67.0 63.9 64.9 64.6 64.0 66.0 57.3 58.1 58.1 57.6 53.5 54.3 54.3 54.5 54.5 54.0 59.9 64.6 65.3 65.5 67.0 57.6 57.6 57.0 57.0 57.0 57.0 57.0 57.0 57.0 57.0			2		4.69				6	6	6	2
67.0 68.0 67.0 67.0 67.0 63.9 64.9 64.0 64.0 64.0 64.0 57.3 58.1 58.1 57.6 53.5 54.3 54.5 54.5 54.5 54.5 54.5 54.5					6.99	L	6			M	~	
63.9 64.9 64.6 64.0 66.7 61.6 61.5 60.9 53.5 54.3 56.1 57.6 53.5 54.3 54.5 54.0 44.6 45.3 45.5 45.4 39.5 41.3 40.4 40.6				62.	64.4		. 10			9		
66.7 61.6 61.5 60.9 57.3 58.1 58.1 57.6 53.5 54.3 54.5 54.0 44.6 45.3 45.5 49.9 44.6 45.3 40.5 49.9				100		2	9		~	7	10	_
57.3 58.1 58.1 57.6 53.5 54.3 54.5 54.1 49.3 50.6 50.2 49.9 44.6 45.3 40.4 40.6				26.	99.0	9	6			80		~
53.5 54.3 54.5 54.0 49.3 50.0 50.2 49.9 44.6 45.3 45.5 45.4 39.5 41.3 40.4 40.6	7.3 61.0	55.5 53.6	.6 53.3	53.	55.9				53.4 5		36.0 32.	0 40.1
49.3 50.6 50.2 49.9 44.6 45.3 45.5 45.4 39.5 41.3 40.4 40.6				50.	52.4	-	2			2	*	5
39.5 43.3 45.5 45.4					48.3	0	~		_		2	•
39.5 43.3 40.4 40.6				41.	43.8		2		80	2		
				37.	39.1	6			2	9		
2				33.	35.5	60	60	36.0	~	-		2
30.7 30.9 31.6			28.	29.	31.1	31.4	34.3		•	•		
24.3 25.8 20.1 20.9			24.	24.	26.8	26.9	2002				6.6	. 10
18.8 20.5 20.9 21.8	20.0 20.3	19.9 18	18.9 19.6	19.9	22.1	22.1	24.8	22.5	19.5 1	15.3	1.3	3.9
13.0 14.6 15.3 16.2			1 4.	14.	17.0	16.8	19.5		M			
8.2 9.2 10.0			8	8	11.3	11.1	13.8		9	4.1		

	250	EET								TEST 74-004-019	-010
NOISE SOURCE F. 1000 ENG. 157 GROUND 6		8	OPERATIONS IDLE, 53% RPM SINGLE ENGINE	RPH	8 3	MELCROL TEMP BAR BAR DELTA N	PRESS HUMID	= 59 F =29,92 IN HG = 70 %		ACN UL CODE DO OPERATION CODE D PROFILE VERSION 19 DEC 75 PAGE J1	00E 030 00E 01013 SION A
		å	P=PNLT		A=AL	ار ا		T=ALT			
•								. AT.			
10	46	200	9.30					. AT		••	
20	• •		5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6				0.0	. AT		••	•
30								A.T	• • • • •		•
94	• • • • • • • • • • • • • • • • • • • •	47	201	1.0				. A T			
A 50								- A -	•	0.00	
9 29		•	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	:		AT	4	•	::
E 70		54 C				100	. A .		۵	4	• •
60		23		3			AT		۵		• • •
96							AT			•	:
100	• •		1.	• •	100	4.6		ĀŢ	۵.		
A 110				•		a a	#	AT.	۵.		
E 120			100					AT			:
130	• • • • • • • • • • • • • • • • • • • •	•	•	• •	• •			AT	•		
140	from springs	• •	• •		• •		*		•		
150	• • • • • • • • • • • • • • • • • • • •	•			• • • • • • • • • • • • • • • • • • • •		A T			:	•
100		• •				AT	•				
170			• •	• •	A T .		۵				•
180		:	.:.	• • • • • • • • • • • • • • • • • • • •	:	. A	:			:	:::
)						************				

0151	1/3 OCTAVE DISTANCE =	8AND 250	FEET	2000												OMEGA TEST 7	8.2 74-004-0	.2 004-019	
NOISE SOURCE/SUBJECT F-1100 AIRCRAFT ENG. JS7-P-21A GROUND RUNUP	SOURCE/SUBJECT LO AIRCRAFT JS7-P-21A ND RUNUP			OPER	PERATIONS ENGINE R SINGLE E	RUNUP ENGINE	, 70% E	A T		ETE BEET	ETEOROLOGY: TEMP BAR PRESS REL HUMID ELTA N =	1 11 11 10	29.92 70 70	FIX N H	1	AINCRAFT OPERATION PROFILE V 19 DEC 75 PAGE C2	_ω	CODE	030 01021 A
BAND CENTER FREG (HZ)	9	10	20	30	9	5.0	09	7.5 A	ANGLE	OEGRE 90	REES)	110	120	130	140	150	160	170	180
50	63<	99	63	79	65	99	89	68	99	68	69	20	72	74	16	11	7.8	75	73
63	634	>49	>49	924	29	68	17	7.0	202	69	7.1	17	14	92	78	29	7.8	73	2
9.0	63	9	69	29	19	99	72	20	11	20	72	72	25	11	78	62	77	68	49
700	68	29	69	69	90	7.1	52	52	75	14	15	92	7.8	19	80	7.8	15	>99	62
125	69	20	20	20	2	73	11	11	26	75	92	77	62	81	81	77	7.1	>49	9
160	2	73	72	72	73	14	28	52	18	7.8	80	62	80	81	81	52	89	624	28
200	69	69	0 2	69	22	72	92	92	9,7	76	22	77	7.8	77	2.2	69	654	594	200
315	89	69	69	7.0	2.2	73	7 12	7.5	7.2	2	77	26	80	200	75	9	200	554	534
004	17	73	73	15	16	92	28	78	62	75	62	78	80	78	74	19	58	534	51
200	7.1	14	14	52	7.8	92	7.8	62	73	62	80	7.8	62	14	72	9	55	51<	64
636	68	70	7.1	7.1	72	7.1	73	73	73	16	25	73	7.8	75	72	69	26	64	47.
900	72	14	73	73	73	74	75	14	16	7.0	25	42	7.8	73	68	49	53	48	
1000	25	14	73	7.1	20	73	69	20	72	17	7.1	73	77	7.1	68	79	53	94	43
1250	62	92	52	73	72	11	11	7.1	72	99	69	72	11	69	29	99	25	14	44
1600	75	72	26	89	29	69	29	99	99	29	29	69	14	68	69	61	53	94	43
2000	1.4	14	73	7.6	72	72	4.	69	99	9	6.8	99	7.0	69	49	09	24	94	43
2500	81	83	83	62	80	81	80	25	73	29	20	29	29	99	63	28	25	48	*
3150	11	62	18	92	22	22	92	73	7.1	99	20	29	69	65	63	28	53	46	42
0004	82	83	81	7.8	7.8	81	22	11	11	14	81	92	81	16	7.1	63	29	55	20
5630	92	15	15	73	23	7.1	73	69	20	29	20	29	72	7.1	29	9	55	45	41
6300	73	15	42	72	73	7.1	7.1	68	69	99	99	29	69	29	99	9	20	44	40
9008	7.1	20	20	69	69	20	69	29	69	29	69	29	20	68	69	61	24	48	44
10000	69	99	65	19	69	69	49	9	19	62	99	49	29	99	63	28	20	*	39

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

	AS A F	FUNCTION OF		ANGLE !	AND DISTANCE	STANCE	FROM SOURCE	DUNCE) OMEGA 8.2) TEST 74-004-01	OMEGA 8.2 TEST 74-004-019	34-019	
NOISE SO F- LU ENG-	E SOURCE/SUBJECT: F-1400 AIRCRAFT ENG. J57-P-21A GROUND RUNUP	UBJECT AIRCRA	-=		OPER	OPERATION: ENGINE SINGLE	RUNUP, ENGINE	70%	A A	2222	METEOROLOGY: TEMP BAR PRES REL HUMI	PRESS HUMID	= 59 = 29,92 = 70 = 0.00	9 F 2 IN HG 0 %		PROFE	RUN 02 AIRCRAFT OPERATION PROFILE VE 19 DEC 75 PAGE 02	CODE	030 01021
DISTANCE (FEET)		10	20	30	0,	5.0	9	202	ANGLE 80	•	(DEGREES) 90 100	110	120	130	140	150	160	170	180
200	104.9			102.		-		-	102.3	8.66	104.0	N	104.9	101.8	98.5	92.4	87.1	80.1	77.
250	102.6	103.4	102.8	-	101-1	.,.	101.5	99.7	100.0	97.5	101.7	98.9	102.6	99.4	96.2	90.1	84.7	77.7	74.8
00+	97.6	•		95		4.76			95.0	95.6	96.8	0	97.7	94.5	91.4	85.1	79.7	72.7	69
200	95.0	1.56		93.					95.4	0.06	94.1	+	95.1	91.9	88.7	82.5	77.0	70.0	67.
630	92.1		92.	93.					89.6	87.2	91.3	9	92.3	89.1	85.9	79.7	74.2	67.2	. 49
900	89.5	90.2	93.1	87.					96.6	84.2	88.3	9	89.3	86.1	85.9	1.91	71.2	2.49	61.
1000	86.3	87.2	87.2	94.	85.5		85.9	83.3	83.4	81.0	85.1	82. 4	86.1	82.9	79.7	73.5	68.0	60.8	57.
1250	83.0		84.		82.3	83.0	85.8	80.2	80.0	77.9	81.5	19.0	82.7	19.4	76.3	70.1	64.5	6.99	53.
1600	19.6	80.6	80.5	78.	78.8		19.4	76.8	76.3	14.9	77.7	75.5	78.9	75.7	73.0	2.99	60.5	52.4	48.9
2000	75.8			74.	75.1		75.7	73.1	73.1	711.7	73.5	72.3	75.0	72.4	9.69	63.0	56.2	48.1	44
2500	711.7			70.	71.0		71.5	69.5	9.69	68.2	69.6	68.6	71.1	68.4	62.5	58.9	51.1	42.7	38.
3150	67.1			65.	4.09		6.99	65.3	4 . 69	64.1	65.7	1.49	6.99	63.8	60.8	54.3	45.2	35.3	30.
4000	61.6		62.8	60.	61.1		61.6	2.09	9.09	9.69	61.1	59.8	62.3	59.0	55.8	48.7	38.7	56.4	17.
5000	55.9			54.	55.1		55.6	55.6	55.7	54.4	56.0	54.8	57.3	53.7	50.3	42.3	29.0	11.4	5
6300	50.3	8.64			49.9		49.8	50.0	50.5	0.64	50.5	49.2	51.9	47.9	44.0	35.3	16.7		
8000	44.0	45.8	45.4	45.	44.0		44.5	45.1	45.4	****	46.0	44.6	47.3	45.9	38.9	29.0	4.5		
10000	36.9	30.5	36.4	36.			38.8	39.3	40.0	38.9	40.1	58.9	41.8	36.7	32.3	20.5			
12560	27.2			29.			32.7	33.7	34.0	33.3	34.9	33.4	36.1	30.5	26.1	9.6			
16000	12.4			21.9			26.1	27.5	27.8	26.8	28.4	26.3	29.8	22.4	16.3				
20000				6	13.9	11.3	15.7	18.2	18.3	18.1	19.1	16.2	19.5	10.8	6.5				
00000																			

a l

SOUNCE_SUBJECT: (OPERATION:	SOOKOE) OMEGA	A -	-019
STANCE U) METEOROLOGY) TEMP) BAR PRE) REL HUM) DELTA N =	SS = 2 10 = 0	59 F 9.92 IN HG 70 %	PROFE	RAFT RATION FILE VI	CODE 033)
106.7 107.7 107.3 1u4.4 105.1 107.1 105.6 103.9 104.4 105.3 101.6 102.9 104.7 103.3 101.6 102.0 102.0 102.9 104.7 103.3 101.6 102.0 102.0 102.9 102.7 103.3 101.6 99.4 100.4 100.3 97.3 98.1 99.1 99.8 98.6 96.7 96.8 97.7 97.8 97.8 95.6 97.1 96.1 94.1 95.0 95.0 95.0 95.0 95.0 95.1 96.2 93.9 91.0 97.2 97.8 95.6 97.2 97.3 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8	ANGLE 80	(DEGREES) 90 100	110 120	130 140	150	160 17	70 180
104.4 105.3 105.0 102.1 102.9 104.7 103.3 101.6 102.0 102.9 102.7 99.8 100.5 102.3 101.0 99.2 99.4 100.4 100.3 97.3 98.1 99.8 98.6 98.6 97.7 97.8 97.8 95.6 97.1 99.8 98.6 98.7 93.9 93.9 99.8 95.6 97.1 96.1 96.1 96.1 97.9 97.8 97.8 97.6 97.1 97.2 97.9 97.8 97.6 97.1 97.2 97.9 97.8 97.6 97.1 97.2 97.9 97.8 97.6 97.1 97.9 97.8 97.8 97.8 97.8 97.8 97.8 97.8	104.4 1	2.3 107.6 1	7-101 107.7	104.4 160.	4 93.8		
102.0 102.9 102.7 99.8 100.5 102.3 101.0 99.2 99.4 100.4 100.3 97.3 98.1 99.8 98.6 98.6 99.6 93.9 93.9 99.8 98.6 96.7 93.9 93.9 99.3 93.5 91.3 91.0 99.2 93.0 95.0 97.3 93.5 91.3 91.0 99.2 93.0 97.3 93.5 91.3 91.0 99.2 93.0 97.3 93.5 91.3 91.0 99.2 93.0 97.3 93.5 91.3 91.0 99.2 93.0 97.3 93.5 91.3 91.0 97.2 91.0 97.2 92.3 89.4 86.4 87.3 88.5 87.6 83.3 84.6 82.3 84.6 82.3 84.6 82.3 84.6 82.3 84.6 82.3 84.6 82.3 84.6 82.3 77.6 78.8 79.0 76.1 76.9 78.2 77.5 75.0 77.6 78.8 79.0 76.1 76.9 78.2 77.5 75.0 77.5 77.5	102.1 1	105.2	•	102.1 98.	1 91.	6	
99.4 1014. 101.3 97.3 98.1 99.8 98.6 96.7 96.8 96.8 96.8 96.8 97.1 96.8 96.8 96.8 96.8 96.8 96.8 96.8 96.8	2.66	102.8		.56 2.66	.68 7	2	
93.9 95.0 95.1 97.0 97.0 97.1 97.1 97.1 97.1 97.1 97.1 97.1 97.1	97.2	100.3		97.2 93.	2 86.	6 6	
91.0 92.2 92.3 83.4 93.2 91.5 91.7 88.3 88.1 88.1 88.2 89.4 86.4 87.3 88.5 87.8 87.8 88.3 84.6 85.3 85.3 84.6 85.3 85.3 84.6 85.3 85.3 85.3 85.3 85.3 85.3 85.3 85.3	3 91.7		2 10	94.b 90.	۰ «	L V	
88.1 89.2 89.4 86.4 87.3 88.5 87.8 85.3 84.6 85.3 84.6 85.3 84.6 82.1 81.4 82.5 82.7 79.8 80.6 81.9 81.2 78.1 77.6 78.8 79.0 76.1 76.9 78.2 77.5 75.0 73.4 71.6 78.9 78.2 77.5 75.0 73.5 74.6 74.8 74.8 71.9 72.8 74.0 73.4 71.4 68.9 69.9 69.9 69.9 69.9 69.9 69.9 69.7 63.1 51.4 51.0 57.9 58.1 55.2 56.2 57.3 56.7 56.7 57.5 51.1 51.0 51.5 48.0 49.7 50.7 50.5 50.8 44.4 43.2 42.8 42.4 44.4 44.2 44.9 45.5 35.9 36.5 36.4 36.5 36.4 36.2 37.3 32.1 33.3 32.7 33.7 12.4 19.9 20.3 21.9 25.4 23.2 26.1 27.5	3 66.8	6.7 91.8	88.5 92.1	88.8 84.	8 78.		66.4 63.9
88.1 89.2 89.4 86.4 87.3 88.5 87.8 85.3 84.6 85.3 84.6 82.1 84.8 86.1 86.5 83.2 84.1 85.3 84.6 82.1 81.4 42.5 87.5 87.5 87.5 87.6 87.6 87.6 87.6 87.6 87.6 87.6 87.6							
84.8 66.6 86.2 83.2 84.1 85.3 84.6 82.1 81.4 82.5 82.7 79.8 80.6 81.9 41.2 78.7 77.6 77.6 80.6 81.9 41.2 78.7 77.6 77.6 80.6 81.9 41.2 78.7 77.6 78.9 78.2 77.9 78.2 77.9 78.2 77.5 75.0 77.9 78.2 77.9 78.2 77.9 78.2 77.9 78.2 77.9 78.2 77.9 78.2 77.9 78.2 63.2 64.3 64.5 61.7 62.6 63.7 63.1 62.3 57.0 57.0 57.9 58.1 55.2 56.2 57.3 56.7 56.7 56.7 51.1 50.6 50.5 58.0 49.7 50.7 50.7 50.7 50.7 50.7 50.7 50.7 50	3 85.6	88.	4 88.	81.	9		
81.4 82.5 82.7 79.8 80.6 81.9 81.2 78.7 77.6 78.7 77.6 78.8 77.6 78.9 78.2 77.5 77.5 75.0 77.6 78.2 78.2 77.5 75.0 73.5 77.6 77.6 77.6 77.6 77.6 77.6 77.6 77	1 82.1	85.	9 85.	82.1 78.	2		
77.6 78.8 79.0 76.1 76.9 78.2 77.5 75.0 73.5 73.5 73.5 73.5 73.5 73.5 73.5 73.5	7 78.5	77.4 81.2	78.5 81.6	78.4 74.	0.89 6		54.7 51.7
73.5 74.6 74.8 71.9 72.8 74.0 73.4 71.4 68.9 68.9 68.9 68.7 67.2 68.2 69.4 68.7 67.2 65.2 69.4 68.7 67.2 67.2 67.2 69.4 68.7 67.2 67.3 67.1 68.1 68.7 67.2 67.3 56.7 56.7 57.1 57.0 57.2 58.1 55.2 56.2 57.3 56.7 56.7 56.7 51.1 51.0 51.5 48.0 49.7 50.7 50.7 50.5 50.8 44.4 43.2 42.8 42.4 44.4 44.2 44.9 45.5 57.2 29.3 29.3 29.9 32.1 31.3 32.7 33.7 12.4 19.9 20.3 21.9 25.4 23.2 26.1 27.5	0 75.2	77.	2 77.	71.	10		
68.9 69.9 70.2 67.2 64.2 69.4 68.7 67.2 65.3 62.5 65.1 65.3 64.3 64.5 61.7 62.6 63.7 63.1 62.3 57.1 63.1 62.3 57.1 57.2 64.5 61.7 62.6 57.7 63.1 62.3 57.1 51.0 51.5 48.0 49.7 50.7 50.7 50.5 50.8 44.4 43.2 42.8 42.4 44.4 44.2 44.9 45.5 50.8 35.9 35.9 35.5 35.4 36.9 35.2 38.1 38.8 39.3 27.2 29.3 29.3 29.9 32.1 31.3 32.7 33.7 12.4 19.9 20.3 21.9 25.4 23.2 26.1 27.5	4 71.7	73.	5 73.	71.1 67.	t		
63.2 64.3 64.5 61.7 62.6 63.7 63.1 62.3 57.0 57.0 57.0 57.0 62.3 57.0 57.0 57.0 57.0 57.0 57.0 57.0 57.0	2 67.5	.69	3 69.	66.5 62.	~		
57.0 57.9 58.1 55.2 56.2 57.3 56.7 56.7 56.7 51.1 51.6 51.5 48.0 49.7 50.7 50.5 50.8 44.4 45.2 42.8 42.4 44.4 44.2 44.9 45.5 50.8 36.9 36.5 36.4 36.2 38.3 38.1 38.8 39.3 27.2 29.3 29.9 32.1 31.3 32.7 33.7 12.4 19.9 20.3 21.9 25.4 23.2 26.1 27.5	3 62.5	94.	2 64.	61.1 57.	3		
51.1 50.6 50.5 48.0 49.7 50.7 50.5 50.8 44.4 43.2 42.8 42.4 44.4 44.2 44.9 45.5 50.8 36.9 36.9 36.9 36.2 38.3 38.1 38.8 39.3 27.2 29.3 29.3 29.9 32.1 31.3 32.7 33.7 12.4 19.9 20.3 21.9 25.4 23.2 26.1 27.5	2 57.0	9 58.	5 59.	55.3 51.	4	-	
36.9 36.5 36.4 36.2 38.3 38.1 38.8 39.3 27.2 29.3 29.3 29.9 32.1 31.3 32.7 33.7 12.4 19.9 20.3 21.9 25.4 23.2 26.1 27.5	8 51.0	_	4 53.	*** 0.64		17.6	
36.9 36.5 36.4 36.2 38.3 38.1 38.8 39.3 27.2 29.3 29.3 29.9 32.1 31.3 32.7 33.7 12.4 19.9 20.3 21.9 25.4 23.2 26.1 27.5	5 45.8	9 46	2 47.	39.	2	6.4	
36.9 36.5 36.4 36.2 38.3 38.1 38.8 39.3 27.2 29.3 29.3 29.9 32.1 31.3 32.7 33.7 12.4 19.9 20.3 21.9 25.4 23.2 26.1 27.5							
12.4 19.9 20.3 21.9 25.4 23.2 26.1 27.5	3 40.0	38.9 40.1	41.	8 36.7 32.3	3 20.5		
12.4 19.9 20.3 21.9 25.4 23.2 26.1 27.5	7 34.1	2	4 36.	1 30.5	6		
	5 27.8	6.6 28.4	3 29.	8 22.4	3		
7.7 8.1 9.8 13.9 11.3 15.7 18.2	2 18.3	_	2 19.	5 10.8	2		
5.4 6.7	7 6.7		2 9.	2			

		A FUNCTION OF		ANGLE A	AND DIS	DISTANCE	FROM SC	SOURCE) TEST	T 74-00	74-004-019	
NOISE SOURCE/SUBJECT F-1600 AIRCRAI ENG. J57-P-21A GROUND RUNUP	E SOURCE/SUBJE F-1600 AIRC ENG. JS7-P-21A GROUND RUNUP	SUBJECT: AIRCRAFT P-21A NUP			UPERA	OPERATIONS ENGINE SINGLE	RUNUP, ENGINE	70%	χ. E	2222	METEOROLOGYS TEMP BAR PRES REL HUMI DELTA N =	PRESS HUMID	= 29.9 = 29.9	L H X	Ş.	A A I R	RUN 02 ABCRAFT CODE APERATION CODE PROFILE VERSION 19 DEC 75	CODE CODE ERSION	DE 030 DE 01021 DON A
DISTANCE	•	51	20	30	0,	50	9	2	ANGLE		(DEGREES)	110	120	130	140	150	160	170	180
210	90.06		9u.7	88.3	88.8	90.0	88.5	86.9	87.1	84.9	88.1	85.9	89.5	85.8	82.6	76.8	70.1	63.5	60.6
250	88.6		88.5	86.1	9 9 9	87.8	86.3	84.7	84.9	82.7	85.8	83.7	87.3	83.6	90.4	24.6	6.79	61.3	58.5
315	86.2		86.1	83.7	8 4.3	85.4	84.3	85.5	95.6	80.5	83.5	81.5	85.1	81.3	78.2	72.4	65.7	59.1	56.3
400	83.8		83.7	81.3	81.9	83.1	81.7	80.2	80.3	76.3	81.2	2.62	85.8	19.0	15.9	70.1	63.4	6.95	24.0
200	81.3		81.2	78.9	19.4	90.09	79.3	17.8	17.9	76.0	78.7	76.9	80.4	76.7	73.6	67.8	61.1	24.5	51.7
630	78.7		78.0	76.3	6.92	76.0	76.8	15.4	15.5	73.6	76.2	14.5	78.0	74.3	71.2	4.69	58.6	52.1	49.3
800	76.6	16.4	6 9 5 2	73.0	74.2	75.3	24.3	72.9	73.1	71.2	73.7	72.1	15.6	71.8	68.7	65.6	56.1	9.64	46.8
1000	73.2		73.0	70.8	71.5	72.6	71.6	70.3	70.5	68.8	71.0	69.6	73.0	69.2	66.1	4.09	53.5	47.0	44.2
1250	70.2	20.5	70.0	6.79	68.6	9.69	68.8	67.7	67.9	66.3	68.3	67.0	70.4	999	63.5	57.8	50.7	44.3	41.5
1600	67.1		66.8	6.49	9.59	9.99	62.6	65.0	65.3	63,7	65.5	4.49	67.7	63.8	60.7	55.0	47.7	41.4	38.6
2000	63.9		63.5	61.7	65.5	63.4	65.9	62.2	62.6	61.1	62.8	61.7	65.0	61.0	57.9	52.1	44.5	38.2	35.5
2500	4.09		6.65	58.3	59.1	0000	58.5	59.1	56.5	58.3	28.1	58.7	62.0	57.9	24.7	49.1	41.0	34.8	32.1
3150	56.8		56.1	24.7	59.5	56.4	55.9	92.6	56.1	55.0	56.3	55.3	58.7	54.5	51.3	45.7	37.3	31.1	28.4
4000	52.9	52.5	52.0	50.8	51.5	55.5	51.9	51.8	52.4	51.4	52.6	51.7	55.5	20.05	47.5	42.1	33.3	27.0	24.4
5300	1.84		47.6	40.5	47.1	48.3	47.6	47.6	48.3	47.2	48.4	47.5	51.1	46.6	43.3	38.1	29.0	22.7	20.1
6300	44.1		45.9	41.9	45.5	43.7	43.0	43.2	43.9	45.9	44.0	43.2	46.8	42.1	38.9	33.7	54.4	18.1	15.5
9000	39.4		38.4	37.8	38.5	39.4	39.0	39.5	7.04	39.3	40.4	39.4	45.8	38.4	35.1	29.7	50.6	14.5	11.9
10000	34.1	34.1	33.7		34.3	34.8	34.9	35.5	36.1	35.4	36.4	35.2	38.5	34.3	31.1	25.3	16.7	10.7	8.2
12500	29.4		28.8		8.67	59.9	30.5	31.2	31.7	31.1	32.1	30.8	33.8	29.8	26.7	20.6	12.8	6.9	4.3
16030	22.3		23.4	23.5	54.9	54.6	25.7	56.4	26.8	26.4	27.3	25.9	28.7	25.0	22.1	15.8	8.9	3.0	4.
20000	15.7		17.6		19.5	18.9	20.4	21.2	21.5	21.1	22.1	20.6	23.2	19.8	17.1	10.9	5.5		
00000	,															1			

	AS A F	FUNCTION	OF	ANGLE A	ON	UISTANCE	FROM SC	SOURCE) OMEGA	OMEGA 6.2 TEST 74-004-01	2 04-019	
NOISE SOURCE/SUBJECT: F-100D AIRCRAFT ENG. J57-P-21A GROUND RUNUP	E SOURCE/SUBJE F-1000 AIRC ENG. JS7-P-21A GROUND RUNUP	BJECT BIRCRAF			OPERATIONS ENGINE SINGLE		RUNUP, ENGINE	20%	A E	20000	HETEOROLOGY: TEMP BAR PRES REL HUMI	PRESS HUMID	= 59.92 = 70 0 08	L H X	9	PAGE	RAFION RATION FILE VI	CODE CODE RS ION	030 01021
OISTANGE (FEET)	•	3	20	36	9	5.0	09	7.0	ANGLE 80		(DEGREES)	110	120	130	140	150	160	170	180
200	95.6	93.4	92.9	90.1	90.6	92.4	4.06	88.8	89.	87.4	91.6	88.8	92.3	88.5	84.5	78.1	72.3	65.8	63.5
550	90.4	91.1	90.7	87.8	88.4	90.1	98.5	86.6		85.2	89.3	96.6	90.1	86.3	82.3	15.9	70.1	63.6	61.3
315	88.0	88.8	88.3	85.5	86.1	87.8	85.9	84.4	84.	83.0	87.0	84.4	87.8	84.0	80.1	73.7	67.9	61.4	59.1
200	83.1	93.8	83.4	80.6	91.2	82.9	81.2	79.7	80	78.5	82.3	79.8	83.2	4.62	75.5	69.1	63.3	56.8	54.5
630	80.5	81.2	80.8	78.0	78.7	90.4	78.7	77.3		76.1	79.8	77.4	80.8	76.9	73.0	66.8	60.8	54.4	52.1
800	77.8	70.4	78.1	75.3	76.0	7.27	76.1	74.8		73.7	17.2	75.0	78.3	14.5	9.02	64.3	58.3	51.9	49.6
1000	75.0	75.5	75.2	72.5	7343	74.9	73.4	72.3		71.3	74.6	72.5	75.8	71.9	68.0	611.8	55.7	100	47.0
1250	72.1	72.5	72.2	9.69	70.4	72.0	76.6	69.6	70.1	68.8	71.8	70.0	73.2	69.5	65.4	59.1	52.9	46.5	44.3
1500	6.89	69.5	69.1	9.99	4.70	6.89	67.7	6.99		66.2	69.1	67.3	70.5	66.5	62.6	56.4	6.64	43.6	41.4
2000	65.7	6.59	65.7	63.4	64,3	65.8	2.49	64.1		63.6	66.3	2.49	67.8	63.7	8.65	53.5	46.7	40.5	38.3
2500	62.2	62.3	62.1	60.1	6.00	02.4	61.4	61.0		60.8	63.2	61.6	8 . 49	60.9	9.95	20.4	43.3	37.1	35.0
3150	58.6	58.5	58.3	56.4	57.3	58.8	57.7	91.6		51.5	59.8	58.3	61.5	57.2	53.2	47.1	39.5	33.3	31.3
+000	54.3	54.0	53.8	52.1	55.9	24.4	53.4	53.4		53.4	55.4	24.0	57.4	55.9	49.0	43.2	35.0		26.7
5000	49.8	49.3	48.9	47.5	48.2	1.64	48.7	49.8		48.7	50.5	49.3	52.8	48.2	4.4.4	38.9	30.3	24.0	21.7
6300	44.8	44.2	43.7	45.6	43.2	1.44	43.7	44.0		43.9	45.4	44.3	47.9	43.2	39.6	34.3	25.3	19.0	16.7
99.00	39.7	39.3	38.8	38.1	38.9	39.9	39.4	39.9	9	39.8	41.1	39.9	43.4	38.9	35.5	59.9	21.1	14.9	12.5
10000	34.1	34.1	33.7	33.3	34.3	34.8	34.9	35.5	36.	35.4	36.4	35.2	38.5	34.3	31.1	25.3	16.7	-	8.2
12500	58.4	29.0	28.8	28.6	29.8	59.9	30.5	31.2	31.	31.1	32.1	30.8	33.8	29.8	26.7	50.6	12.8	6.9	4.3
16000	22.3	23.4	23.4	23.5	54.9	24.6	25.7	26.4	26.	26.4	27.3	25.9	28.7	25.0	22.1	15.8	8.9		4.
20000	15.7	17.4	17.6	17.9	19.5	18.9	50.4	21.2	21.	21.1	22.1	20.6	23.2	19.8	17.1	10.9	2.5		
2000															•				

	DISTANCE	DISTANCE =	52	250 FEET																	D ONEG	OMEGA 6.2 TEST 74-004-019 RUN 02	204-01	0,
NOISE SOURCE/SUBJECT: F-1660 AIRCRAFT ENG. JS7-P-21A GROUND RUNUP	357-F	AIRCR AIRCR -21A	- L			0	OPERATIONS ENGINE SINGLE		NOIN	, 70)	RUNUP, 70% RPM Engine		2000	METEOROI TEM BAR BAR REL DELTA N	METEOROLOGY: TEMP BAR PRESS REL HUMID DELTA N = 0.	ESS = 2	6 8	70 % N X	9		DAIRC DOPER DPROF DPAGE	AIRCRAFT CODE DOPERATION CODE DOPROFILE VERSION 19 DEC 75 PAGE J2	CODE	030 01021 N A
						9=	P=PNLT	7 6				A	A=AL						T-ALT					1
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6.4								• •				• •							AT .	1	• •	•	• •	
A 50								• •				• •							4		• •	۵	• •	
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E 76								• •				• •						4			-		• •	
I 80								• •				• •						4			•	۵	• •	
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17.3 01S	1/3 OCTAVE DISTANCE =	250 250	FEET	_												DHEGA	74-00	8.2	
NOISE SOURCE/SUBJE F-110D AIRCRA ENG. J57-P-21A GROUND RUNUP	AAA				PERATION: MILITARY POWER, SINGLE ENGINE DEFLECTED FLOW	ED FL	1	97 % R	ν L	E B B B B B B B B B B B B B B B B B B B	TEOROLOGY TEMP BAR PRESS REL HUMID	ESS = HID =	29.92 70 70 80 0.0	I Z X	¥	AIRCR OPERA PROFI PAGE	O1 TION TEVE C75	AIRCRAFT CODE DOPERATION CODE DOPERATION CODE DOPERATION CODE DOPERATION 19 DEC 75	030 01004 A
BAND CENTER FREQ (HZ)	9	3	26	30	0 4	5.6	99	4 0	ANGLE	OEGRE	EES) 166	3	120	130	1 4 5	150	>160	>170	*180
50	62	78	96	8.0	82	82	82	85	.00	85	87	91	76	66	102	103	45	90	80
63	81	82	82	83	9	9 7	8 5	87	88	90	89	93	98	103	106	106	66	92	86
30	83	84	83	85	48	48	20	88	68	68	91	96	101	107	109	108	102	95	88
100		87	90	98	98	87	88	9.6	91	93	96	66	104	111	112	109	102	96	68
125	88	88	89	98	98	06	91	95	46	96	96	104	110	115	116	112	105	86	92
166	6	96	06	06	91	95	93	76	95	97	100	137	112	118	118	112	105	66	92
250	0 4	2 4	3 4	3 0	2 6	7 0	2 6	7 7	0 0 0 0	9 6	100	102	109	110	118		105	96	16 6
315	91	90	36	93	35	95	63	0 0	96	100	102	106	111	114	117	111	104	98	91
00+	16	93	92	16	93	+6	95	26	100	101	104	109	113	115	115	108	102	95	88
2.0	90	88	89	93	95	92	93	96	16	100	103	106	110	112	112	104	46	06	84
636	68	68	68	95	91	91	93	96	66	100	102	105	108	111	112	103	16	90	83
800	88	87	88	35	91	93	35	96	96	101	103	106	109	109	109	66	95	96	79
1000	87	98	98	90	96	96	93	95	66	100	101	104	107	101	108	100	93	98	80
1250	65	84	40	69	68	69	95	46	16	66	100	102	105	104	105	26	06	83	11
1606	85	84	84	88	88	69	95	6	96	100	66	101	104	102	105	96	69	82	92
2000	96	88	87	88	88	88	95	95	96	100	86	100	103	101	103	96	69	82	92
2506	68	31	83	89	68	89	93	95	96	100	86	66	100	66	102	95	89	82	75
3150	40	92	96	96	96	90	90	93	96	86	96	96	96	98	66	93	98	80	73
4000	83	94	94	98	84	86	90	93	96	86	96	46	96	98	98	91	85	78	11
2000	81	83	83	94	83	94	68	91	46	96	96	26	98	96	96	89	83	92	69
6300	11	62	29	9	20	82	87	88	91	46	93	46	96	93	46	87	80	7.	29
8000	92	18	11	7.8	7.8	81	85	87	16	93	16	*6	93	91	92	85	78	72	69
10000	11	72	72	14	14	76	90	83	82	88	8 8	93	90	8.8	90	81	14	29	61

. SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

NOISE SO F-10 ENG. GROU OISTANCE	SOURCE/SUBJECT:	A PONCITON	90	ANGLE A	AND DIS	DISTANCE	FROM S	SOURCE) OMEGA	OMEGA 8.2 TEST 74-004-02	8.2	
ISTAN	ENG. JS7-P-2 GROUND RUNUP	F SOURCE/SUBJECT: F-100 AIRCRAFT ENG. J57-P-21A GROUND RUNUP	- 12		0 PE.R.	RATION: MILITARY POWER, SINGLE ENCINE DEFLECTED FLOM	ENGINE	ER, 97%	η H		METEOROLOGY B TEMP BAR PRES REL HUMI DELTA N =		#23 0 0	59 F 92 IN 70 %	ş	PROPERCY 19 CANAL PROPERCY 19	RATICE OF CO.	C006 C006 RSIG	030 01004
	ice o	70	20	30	3	5.	9	20	ANGLE		(DEGREES) 90 100	3	120	130	146	150	>160	>170	×180
240	114.2	2 115.4	114.7	115.7	115.5		119.2	9		126.2	125.	128.2	131.2	133.1	134.4	127.9	121.2	.0	107.9
250					113.3	113.9	117.0		122.0	124.0	123.	126.0	129.	130.	132.3	125.8	119.1		105.7
313	103.0	110.9	110.0	111	111.0		114.7	-		1410	171.4	123.7	120.9	128.8		123.7	117.0	n -	103.5
200				100	1.6.2		109.9	- ~		116.9				124.3	125.7	119.3	112.6		99.0
630				103.		-	107.3	1	-	114.3	114.1		120.	122.0	123.4	116.9	110.2		96.6
900	99.	8 100.9	100.5	101.2	101.0		104.6	,	.0	111.6	111.4	114.2		119.6	121.0	114.5	107.8	0	94.2
1000	97.4	98.0	47.6	86	94.2	98.8	1.11.8	104.1	106.4	1 DA.B	108.6	111.6	115.0	117.1	118.4	-	105.2	98.4	91.5
1250				95.	95.1		98.7	101.0	103.7	105.7	105.	108.8	112.	114.4	115.5		102.3	95.4	88.5
1600	999.6	91.6		95.	91.9		95.3	7.16	100.4	102.4		106.0		111.6	112.5	•	99.1	92.3	85.4
2000		9 88.0		89.	88.4		91.7	94.1	96.9	98.8	99.	112.9		108.6	109.6	•	96.0	89.2	82.2
2500				85.	9 4.0	95.5	87.8	90.1	95.9	8.46		99.1	102.	104.8	105.8	0	92.1	85.2	78.3
3150				81.	80.5		83.4	65.8	88.7	90.06	91.	6.46	98.	100.6	101.6		87.8	80.9	73.9
4000				76.	76.0		79.5	81.2	84.0	86.1	87.	90.5	93.	6.56	97.1	•	85.9	15.9	69.0
2000	69		69	72.0	71.3		74.0	76.6	79.5	81.4	82.	85.9	89.3	91.1	95.4	84.5	77.6	20.6	63.5
200	•••		200	•	500	2	0.60	9.1	1.1	6.07		01.1	•	299	87.5		12.5	4.00	28.5
0000	•	23.5	23.1	1.79	0.20	-	1 . 60	9.70	0.00	0.27		6.0	•	6.70	030	0	0 0 0 0	6110	24.0
13000		1 54.7		58.	57.4		500	62.3	65.1	67.1	68.	72.5	76.2	78.5	79.5	71.6	64.5	57.2	49.5
12500	9.05		49.7	53.	55.5		54.8	57.1	60.3	61.9	9	68.0	711.7	74.3	75.2	67.5	60.3	52.7	44.5
16000	9.44			47.8	6.04	47.8	49.3	51.6	54.5	56.5	59.0	65.9	6.99	9.69	70.5	63.0	9.55	47.8	39.0
20000		4 37.7	37.3	41.	40.1		42.7	45.3	47.8	50.5	53.	57.3	61.4	4.49	65.4	58.1	50.5	42.0	33.0
25000	30.	8 29.8		32.	31.7		35.3	37.8	+0.3	43.4	46.	51.1	55.7	59.0	89.8	52.6	***	35.0	23.6

יון ההחקבה משפסססספפרר שטממ	RPH	METEOROLOGY:			
ANGLE 115.5 116.9 115.8 115.7 115.5 116.2 119.2 121.6 124.2 12 1111.0 115.5 116.2 113.9 117.0 119.3 122.0 12 1111.0 112.4 115.5 113.9 117.0 119.3 122.0 12 1111.0 112.4 111.3 113.9 117.0 119.3 122.0 12 1111.0 112.4 111.3 111.3 113.9 117.0 119.3 122.0 12 111.0 112.4 111.3 111.3 113.9 117.0 119.3 122.0 12 113.0 113.0 110.2 110.0 110.3 110.2 110.0 110.3 110.2 110.0 110.3 110.2 110.0 110.3 110.2 110.0 110.3 1	GLE (DEGREES 90 100	AAR PRESS =29.	59 F 92 IN HG 70 %	AIRCRAFT OPERATION PROFILE VI 19 DEC 75 PAGE E1	CODE 030 N CODE 01004 VERSION A
115.5 116.9 115.8 115.7 115.5 116.2 119.2 121.6 124.2 1113.3 1113.3 113.9 117.0 119.3 122.0 1111.0 112.4 111.3 111.2 111.0 111.7 114.7 117.0 119.3 122.0 1111.0 112.4 111.0 110.7 110.3 110.3 111.2 111.0 110.7 117.0 119.7 117.0 119.7 117.0 119.7 117.0 119.7 117.0 110.3 110.5 110.3 11	20. 0 20. 0	110 120	130 140	150 >160	>170 >180
113.3 114.7 113.6 113.5 113.3 113.9 117.0 119.3 122.0 1113.0 1113.0 112.4 1111.3 113.5 113.5 111.7 117.0 119.3 122.0 1111.0 112.4 111.3 111.2 111.0 111.7 111.0 119.7 110.0 110.2 110.0 110.7 110.7 112.7 111.7 111.7 111.7 111.7 110.7 110.3 110.7 110.9 110.7 110.3 110.7 110.9 110.2 111.7 110.3 110.7 110.9 110.1 110.9 110.1 110.9 110.1 110.9 110.1 11	120.2 120.	5 128.2	133.1	127.9 121.	
108.7 1110.0 1199.0 1108.9 1108.7 1109.3 112.4 1114.7 117.4 1106.3 1107.0 1109.0 1108.2 1106.2 1109.9 112.2 1114.9 1103.7 1102.3 1107.0 1109.9 112.2 1114.9 1103.7 1102.3 1107.1 1102.3 1101.1 1102.4 1101.3 1101.2 1101.0 1101.6 1107.0 1107.0 1109.6 1102.1 1102.4 1101.1 1102.4 1101.1 1102.4 1101.1 1102.4 1101.1 1102.4 1101.1 1102.4 1101.1 1102.4 1101.1 1102.4 1102.7 1102.3 1102.4	124.0 124.	3 126.0	130.9	125.8	
106.3 107.6 106.0 106.4 106.2 100.9 109.9 112.2 114.9 103.7 105.1 104.0 103.9 103.7 104.3 107.3 109.7 112.3 1003.7 105.1 104.0 103.9 103.7 104.3 107.3 109.7 112.3 1001.1 102.4 101.3 101.2 101.0 101.6 104.0 107.0 109.6 101.1 102.4 101.1 101.8 101.0 107.0 109.6 98.2 99.2 99.8 99.7 90.7 101.0 109.6 99.2 96.4 99.7 99.7 101.0 103.7 91.9 93.1 92.9 93.1 92.0 93.8 91.8 92.3 91.8 92.3 91.7 94.1 100.8 90.7 81.0 80.1 81.1 80.5 81.2 84.6 85.8 87.8 90.1 92.8 80.7 81.0 80.1 81.1 80.5 81.2 83.4 85.8 88.7 70.1 70.0 70.2 70.0 70.2 81.2 84.0 70.1 70.0 69.8 72.0 71.3 72.4 74.6 76.6 79.2 81.2 84.0 60.3 59.4 59.4 57.7 67.7 67.3 72.4 74.6 76.6 79.2 81.2 84.0 60.3 59.4 64.7 67.0 66.3 67.3 69.6 71.6 69.8 59.6 61.2 84.0 67.0 66.3 67.3 69.6 71.6 69.8 59.6 64.3 8 49.7 53.4 52.5 53.2 54.8 57.1 57.0 69.8 59.6 64.3 8 49.7 53.4 52.5 53.2 54.8 57.1 57.0 60.3 54.2 54.6 77.7 77.3 77.3 77.3 77.0 77.1 77.0 77.3 77.3 77.3 77.3 77.3 77.3 77.3	119.4 119.	6 121.4	126.6	121.5 114.	
98.2 99.5 98.5 98.4 98.2 98.8 101.8 104.1 10b.8 95.2 96.4 95.3 95.1 95.7 98.7 101.0 103.7 91.9 93.2 96.4 95.3 95.1 95.7 98.7 101.0 103.7 91.9 93.5 96.4 95.3 95.1 95.7 101.0 103.7 91.9 93.5 19.5 95.8 95.5 95.8 95.5 95.7 101.0 103.7 95.8 95.5 84.4 85.3 84.6 85.5 87.8 90.1 92.9 80.7 81.0 80.1 81.1 80.5 81.2 87.8 90.1 92.9 80.7 75.6 75.9 75.0 75.9 75.9 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0	116.9 117.	2 119.1 122.4		119.3 112.6	105.8 99.0
98.2 99.5 98.5 98.4 94.2 98.8 101.8 104.1 10b.8 95.2 96.4 95.4 95.3 95.1 95.7 98.7 101.0 103.7 91.9 93.1 92.0 92.2 91.8 92.5 95.3 97.7 1010.4 88.8 89.5 88.4 89.1 88.4 89.3 91.7 94.1 96.0 84.9 85.5 84.4 85.3 84.6 85.5 95.3 97.7 100.4 88.5 86.5 84.4 85.3 84.6 85.5 91.7 94.1 96.0 80.7 75.6 75.6 74.9 76.7 70.0 76.9 79.2 81.2 84.0 75.6 75.6 74.9 76.7 70.0 76.9 79.2 81.2 84.0 70.1 70.0 69.8 72.0 71.3 72.4 74.6 76.6 79.2 64.0 70.3 59.4 67.0 66.3 67.3 69.6 71.6 74.1 60.3 85.4 54.0 75.6 75.4 58.2 57.4 58.2 57.4 57.5 67.6 79.2 81.2 84.0 70.3 70.3 70.3 70.3 70.3 70.3 70.3 70	5 111.6 111.	9 114.2	119.5	114.5 107.	
95.2 93.9 95.9 95.1 95.1 95.7 94.7 101.0 103.7 95.9 95.1 95.1 95.1 95.1 95.1 95.1 95.1		, , , ,			
91.9 93.1 92.0 92.2 91.8 92.5 95.3 97.7 100.4 68.8 69.5 88.4 69.1 98.4 89.3 91.7 94.1 96.8 84.9 85.5 87.7 100.4 88.9 86.5 87.8 90.1 92.9 80.7 81.0 80.1 81.1 80.5 81.2 83.4 85.8 68.7 75.6 75.6 76.7 75.0 76.9 76.7 76.9 76.7 76.9 76.7 76.9 76.7 76.9 76.7 76.9 76.7 76.9 76.7 76.9 76.7 76.9 76.9	1.5.7	108.8	116.6	109.0	
88.8 89.5 88.4 89.1 88.4 89.3 91.7 94.1 96.8 84.9 86.5 87.8 90.1 92.9 80.7 81.0 80.4 85.3 84.6 85.5 87.8 90.1 92.9 80.7 81.0 80.1 81.1 80.5 81.2 83.4 85.8 80.7 75.6 75.6 76.7 70.0 70.9 70.7 70.9 70.7 70.0 70.9 70.1 70.9 70.1 70.9 70.1 70.9 70.1 70.9 70.1 70.9 70.1 70.9 70.1 70.9 70.1 70.9 70.1 70.9 70.1 70.9 70.1 70.9 70.1 70.9 70.1 70.9 70.1 70.9 70.1 70.9 70.1 70.9 70.1 70.9 70.1 70.1 70.1 70.1 70.1 70.1 70.1 70.1	102.4	106.0	111.6	105.9	92.3
84.9 85.5 84.4 85.3 84.6 85.5 87.8 90.1 92.9 80.7 81.0 80.1 81.1 80.5 81.2 83.4 85.8 88.7 75.6 75.6 74.9 76.7 76.1 76.9 76.9 79.2 81.2 84.4 85.8 68.7 70.1 70.9 79.2 81.2 84.0 70.1 70.0 69.3 67.3 69.6 71.6 77.2 72.4 67.0 66.3 67.3 69.6 71.6 74.1 60.3 59.4 59.9 62.7 62.0 63.0 65.1 67.0 69.8 55.4 54.7 54.8 58.2 57.4 58.2 61.2 62.3 65.1 50.0 69.8 60.6 49.8 49.8 53.4 52.5 54.8 94.3 51.6 57.1 60.0 44.6 43.8 43.6 47.8 46.9 47.8 49.3 51.6 54.2 54.2 38.4 37.7 37.3 41.0 40.1 41.0 42.7 45.3 47.8	8 . 86 8	102.9	108.6	102.9	89.2
80.7 81.0 80.1 81.1 80.5 81.2 83.4 85.8 48.7 75.6 75.6 75.6 74.9 76.7 76.0 76.9 79.2 81.2 84.0 70.1 70.0 69.4 75.7 76.0 76.9 79.2 81.2 84.0 70.1 70.0 69.4 67.0 66.3 67.3 69.6 71.6 77.5 79.2 60.3 59.4 59.9 62.7 62.0 63.0 65.1 67.0 69.8 55.4 54.7 54.4 58.2 57.4 58.2 60.2 62.3 65.1 57.0 69.8 50.6 49.8 49.7 54.4 58.2 57.4 58.2 54.8 57.1 60.0 54.2 57.4 57.3 77.3 77.3 41.0 40.1 41.0 42.7 45.3 47.8 47.8	8 94 6	99.1	104.8	99.0	85.2
55.6 59.6 69.8 72.0 71.3 72.4 74.6 76.6 79.2 60.0 60.0 60.3 59.4 59.9 62.7 62.0 71.3 72.4 74.6 76.6 77.1 74.1 60.3 59.4 59.9 62.7 62.0 63.0 65.1 67.0 69.8 55.4 54.7 54.8 58.2 57.4 58.2 60.2 62.3 65.1 67.0 69.8 50.6 49.8 49.7 54.8 58.2 57.4 58.2 54.8 57.1 60.0 34.8 49.3 57.1 60.0 34.8 49.3 57.1 60.0 34.8 49.3 57.1 60.0 34.8 49.3 57.1 60.0 34.8 49.3 57.1 60.0 34.8 49.3 57.1 60.0 34.8 49.3 57.1 60.0 34.8 49.3 57.1 60.0 34.8 49.3 57.1 60.0 34.8 49.8 49.3 57.1 60.0 34.8 49.8 49.8 49.3 57.1 60.0 34.8 49.8 49.8 57.1 60.0 34.8 49.8 49.8 57.1 60.0 34.8 49.8 49.8 57.1 60.0 34.8 49.8 49.8 57.1 60.0 34.8 49.8 49.8 57.1 60.0 34.8 49.8 49.8 57.1 60.0 34.8 49.8 49.8 57.1 60.0 34.8 49.8 49.8 57.1 60.0 34.8 49.8 49.8 49.8 57.1 60.0 34.8 49.8 49.8 49.8 49.8 49.8 49.8 47.8 49.8 49.8 49.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47	9006	6.46	100.6	94.7	80.0
64.7 64.4 64.4 67.0 66.3 67.3 69.6 71.6 74.1 60.3 59.4 59.4 59.9 62.7 62.0 63.0 65.1 67.0 69.8 55.4 54.7 54.8 58.2 57.4 58.2 60.2 62.3 65.1 50.0 69.8 50.4 54.7 54.8 58.2 57.4 58.2 54.8 57.1 60.0 44.6 43.8 43.6 47.8 46.9 47.8 49.3 51.6 54.2 38.4 37.7 37.3 41.0 40.1 41.0 42.7 45.3 47.8	- N	0 85.9 89.3	91.1 92.4	84.5 77.6	70.6 63.5
60.3 59.4 59.9 62.7 62.0 63.0 65.1 67.0 69.8 55.4 54.7 54.4 58.2 57.4 58.2 60.2 62.3 65.1 50.6 49.8 49.7 53.4 52.5 53.2 54.8 57.1 60.0 44.6 43.8 43.6 47.8 46.9 47.8 49.3 51.6 54.2 38.4 37.7 37.3 41.0 40.1 41.0 42.7 45.3 47.8	1 76.5	81.1	86.2	19.4	65.4
55.4 54.7 54.8 58.2 57.4 58.2 60.2 62.3 65.1 50.6 49.8 49.7 53.4 52.5 53.2 54.8 57.1 60.0 44.6 43.8 43.6 47.8 46.9 47.8 49.3 51.6 54.2 38.4 37.7 37.3 41.0 40.1 41.0 42.7 45.3 47.8	8 72.0	16.9	85.5	15.6	61.5
50.6 49.6 49.7 53.4 52.5 53.2 54.8 57.1 50.1 44.6 43.8 43.6 47.8 46.9 47.8 49.3 51.6 54.2 38.4 37.7 37.3 41.0 40.1 41.0 42.7 45.3 47.8	1 67.1 68.	72.5	78.5 79.	71.6 64.	K7.2 49.E
44.6 43.8 43.6 47.8 46.9 47.8 49.3 51.6 54.2 38.4 37.7 37.3 41.0 40.1 41.0 42.7 45.3 47.8	0 61.9 64.	2 68.3 71.7		67.5 60.3	52.7 44.
38.4 37.7 37.3 41.0 40.1 41.0 42.7 45.3 47.8	2 56.5 59.	0 62.9	69.6 70.	63.0 55.	47.8 39.0
	8 50.5 53.	3 57.3	64.4 65.	58.1 50.	33.
30.8 29.8 29.3 32.9 31.7 33.2 35.3 37.8 40.3	3 43.4 46.	6 51.1	59.0	. ***	23.

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

NOISE S	AS A	FUNCTI	AS A FUNCTION OF ANGLE		AND DISTANCE	STANCE	FROM SOURCE	SOURCE) TEST	TEST 74-00	74-004-050	
GRO	OURCE/ OGD JS7- UND RU	SUBJECTS AIRCRAF P-21A NUP	- [OPER	RATION: MILITARY POWER, SINGLE ENCINE JEFLECTED FLOW	ENG INE	ER, 97% E	A H		METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	· · OH	=29.	59 F 92 IN 70 %	9	AIRCOPER 19 DISCOPER 19 DISCOP	RUN 01 APECRATI CODE APECRATION CODE PROFILE VERSION 19 DEC 75	CODE CODE ERSION	030 01004 A
DISTANCE (FEET)	9	10	2u	30	7	50	9	7.0	ANGL		(DEGREES)	110	120	130	140	150	>160	>170	>180
240	100.2	1.00.7	160.2	142.5	-	102.7	105.5	167.8	110.7	112.7	113.0	115.7	118.7	120.1	121.4	114.0	107.3	100.7	0.40
250	98.0			163.4	99	100.6	163.3	105.7	108.5	110.5	110	113.6	116	118.	119.4	111.9	105.3	98.6	91.9
315	95.9				97.	98.4	101.1	103.5	106.3		108.	111.5	114.	116.	117.3	109.9	103.2	96.5	89.9
400	93.7					96.2	98.9	101.2	104.0		106.	109.3	112.4	113.	115.2	107.7	101.1	4.46	87.7
200	91.4				93.	93.9	96.6	99.9	101.7		104.2	107.1	110.2	111.	113.0	105.6	98.9	92.2	85.6
630	89.1					91.6	94.5			101.4	101	104.8	108.0	109.5	110.8	103.3	96.6	90.0	83.3
900	9.99	6.90	86.6		8 9	89.3	91.8	• 46	96.9	98.9		102.5	105.7	107.2	108.5	101.0	94.3	87.7	81.0
1000	84.3	84.4	84.1	86.8	86.2	96.8	89.3	91.6	94.4	96.4	97.	100.2	103.4	104.9	106.2	98.6	91.9	85.3	78.6
1250	81.8	81.8	81.5	84.2	83.6	84.3	86.7	89.0	91.8	93.8	94.6	97.7	101	102.	103.6	96.0	89.3	82.7	76.0
1600	79.2		78.8	81.	81.0	81.7	84.0	86.3	89.1	91.1	92.	95.2		-66	101.0	93.3	86.6	79.9	73.3
2000	76.5			79.	78.3	79.0	81.2	83.5	86.2	88.3	89.	95.6	95.	97.	98.3	90.5	83.8	77.1	70.5
2500	73.4			76.	75.3	76.0	78.2	80.4	83.2	85.2	86.	89.6	92.9	94.2	95.2	87.2	80.5	73.8	67.2
3150	73.0			72.	72.0	72.8	6.42	77.1	79.9	81.9		86.4		6.06	91.9	83.6	76.9	70.2	63.6
4000	66.2			69	69.4	69.2	71.3	73.5		78.3	19.	65.8	86.	87.1	88.1	19.6	72.9	66.3	29.6
2000	62.0			65.	64.4	65.1	67.2	69.4	72.2	74.3	75.	78.7	81.	83.0	83.9	15.2	68.5	61.9	55.5
6360	51.5			69.	0.09	2.09	62.8	65.0	67.8	6.69	71.	74.4	77.	78.6	19.5	7.07	64.0	57.3	50.7
8000	53.6	52.8	53.1		56.0	96.8	58.8	6000	63.6	2.59	67.	70.5		24.9	15.8	67.0	4.09	53.7	47.0
10000	49.5	43.6	48.9	52.	51.6	52.4	54.3	56.4	59.0	61.1		66.2	69.5	70.9	711.7	63.2	56.5	49.8	43.2
12500	44.9			47.	6.94	47.7	49.5	51.6	54.1	56.2	58.	61.5	6.49	66.5	67.4	59.0	52.3	45.6	39.0
16000	40.0			45.6	41.8	45.6	44.2	46.3	48.7	50.8	53.0	56.4	59.9	61.8	62.6	54.5	47.8	41.2	34.5
20000	34.6	33.7	33.8	37.	36.1	36.9	38.5	40.5	45.9	45.0	47.	50.8	54.4	9099	57.5	49.7	43.0	36.4	29.7
25000	28.8			30.	30.0	30.8	32.2	34.1	36.5	38.6	41.	1.44	48.5	51.0	51.9	44.6	37.9	31.3	24.6

	AS A	AS A FUNCTION OF		ANGLE A	AND DI	DISTANCE	FROM S	SOURCE) OMEGA	GA 8.	74-004-020	
NOISE S F-1 ENG GRO	SE SOURCE/SUBJECT: F-1000 AIRCRAFT ENG. JS7-P-21A GROUNU RUNUP	SUBJECT & AIRCRAF P-21A NUP	- F		OPER	PERATIONS MILITARY PO SINGLE ENGI DEFLECTED F	IX POWER, ENGINE	R, 972	A A		METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	PRESS HUMIO	= 59 = 29.92 = 70	L H X	9	PROPERTY AND A PAGE	CRAFT RATIO FILE DEC 7 E G1	CODE	030 01004
DISTANCE	9	3	20	95	9	50	9	7.5	ANGLE		(DEGREES) 90 100	110	120	130	140	150	160	>170	180
200	101.4	102.1	101.3	102.5	142.0	•	105.5		110.7	112.7	113.5	115.7	118.7	120.1	121.4	114.0	107.3	1001	94.
250	99.3				6.66	-	103.3	1	198.5	110.5	111.	113.6	116.6	118.	119.4	111.9	105.3	98.6	91.9
315	97.1	97.7	97.0	98.2	97.7	98.4	101.1	103.5	106.3	108.3	109.2	1111.5	114.5	116.0	117.3	109.9	103.2	96.5	89.9
270	92.7				93.3		36.6	4 0	101.7	103.7	104	107.1	110.2	111.7	113.0	105.6	98.9	92.2	85.
636	9004		36.		91.0		94.2		99.3	101.4		104.8	108.0		110.8	103.3	96.6	90.0	83.
800	388		87.7	89.5	9.09		91.8	94.1	6.96	98.9	1001	102.5	105.7	107.2	106.5	101.0	94.3	87.7	61.
1000	85.6		85.2	86.8	86.2	86.8	89.3	91.6	94.4	96.4	7.76	100.2	103.4		106.2		91.9	85.3	78.6
1250	63.1				83.6	84.3	86.7	89.0	91.6	93.8	95.2	97.7	101.0	102.	103.6	96	89.3	82.7	76.
1600	80.5				81.0	81.7	84.0	86.3	89.1	91.1	92.	95.2	98.5		101.0			6.62	73.3
2000	77.8				78.3	79.0	81.2	83.5	96.2	88.3		95.6	6.56		96.3	90.5	83.8	77.1	70.
2500	74.6		74.0		75.3	76.0	78.2	80.4	83.2	85.2		9.68	95.9		95.2			73.8	67.
3150	71.2		70.6		72.0	72.8	14.9	77.1	79.9	81.9	83.	86.4	9.69		91.9	83.		70.2	63.
0004	67.2		9.09	69.1	6 9.4	69.5	71.3	73.5	70.2	78.3	80.		86.0	87.1	88.1	79.		66.3	59.6
2000	62.7		62.2		04.4	65.1	67.2	4.69	72.2	74.3		78.7	81.9		83.9		68.5	61.9	55.
6330	58.0		51.5		0.09	2.09	62.8	65.0	67.8	6.69		74.4	77.6		79.5		64.0	57.3	50.
9000	53.9		53.4		26.0	56.8	58.8	6009	63.6	65.7	67.	20.5	73.7	74.9	75.8		4.09	53.7	47.0
10000	49.5		46.9		51.6		54.3	56.4	59.0	61.1		66.2	69.5	70.9	71.7	63.2	56.5	49.8	43.2
12500	6.44		44.3		46.9		49.5	51.6	54.1	56.2	58.	61.5	6.49	66.5	67.4	59.0	52.3	45.6	39.
16000	40.0		39.3	45.6	41.8	45.6	44.2	46.3	48.7	50.8	53.	56.4	59.9	61.8	62.6	54.5	47.8	41.2	34.
20000	34.0		33.8		30.1		38.5	40.5	42.9	45.0		50.8	54.4	56.6	57.5	49.7	43.0	36.4	29.7
25006	9 90		20						-					-					

DISTANCE = 250	FEET			TEST 74-004-020
NOISE SOURCE/SUBJECT: F-1000 AIRCRAFT ENG. JS7-P-21A GROUND RUNUP	(OPERATION: (MLITARY POWER, (SINGLE ENGINE (DEFLECTED FLOM	97% RPH) METEOROLOGY 1 1 TEMP) 3AR PRES) BAR PRES) DELTA N =	= 59 F =29,92 IN HG = 70 %	MECRAT CODE 030) PROFILE VERSION A) PAGE 11
8000	P=PNLT	ASAL	T=ALT	
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30 (· ×		
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150 (×	
, 160 (· · · · · · · · · · · · · · · · · ·	. 04545404		•••	ericostra costa
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*180 (×		
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> SPL DATA MERE EXTRAPOLATED FOR THIS ANGLE.

Z	DISTANCE = 25	250 FEE	_												OMEGA TEST 7	8.2	50
ISE SOURCE/SUBJEC F-10 UD AIRCRAF ENG. J57-P-21A GROUND RUNUP	104		0	ERATION: AFTERBURNER, SINGLE ENGINE	URNER ENGI	NE HAX	POWER	~	E E E E E E E E E E E E E E E E E E E	METEOROLOGY: TEMP BAR PRESS REL HUMID	SS = 0	29.92 70 70	N N HG	1	AIRCRAFT OPERATION PROFILE VE 19 DEC 75 PAGE C2	FT CODE ION CODE E VERSION 75	E 030
0	3	20	30	9	5.0	9	Z A	ANGLE	CDEGR	EES)	110	120	130	140	150	160 >170	0 >180
89	88	89	96	95	95	56	46	16	95	46	102	106	112	112	111	_	•
	96	91	93	93	16	16	96	98	96	96	103	109	114	115	112	_	
95	95	93	46	*6	96	96	96	86	66	101	106	113	116	116	113	•	7
93	36	16	96	35	16	96	66	66	102	103	110	111	120	118	115	•	7
96	96	26	16	86	100	100	101	102	104	108	115	123	123	121	117	_	1
97	96	96	98	66	101	101	103	105	106	109	116	125	124	122	119	_	80
96	95	26	96	66	100	100	102	104	106	110	116	123	123	122	117	_	1
66	6	95	5	86	101	66	101	103	1.16	109	116	123	123	121	117		_
96	86	97	100	101	103	103	105	107	110	113	120	125	126	123	119	m	- 1
200	9 3	6	5	103	101	103	100	100	111	115	140	125	125	121	118		•
2 2	4 0	* 0	100	404	700	100	100	100	110	110	120	121	127	120	114	•	
95	91	95	96	100	101	66	104	106	109	115	117	119	119	115	111	93 8	83 73
89	96	95	96	66	102	66	105	107	110	113	116	120	120	114	110		1
89	87	89	93	16	100	16	103	105	108	112	114	118	117	112	106	~	1
87	86	88	92	96	100	96	103	105	109	111	115	117	116	110	106	_	7
90	91	90	95	96	101	16	104	100	110	112	115	117	116	111	101	-	~
91	96	91	91	95	100	95	103	105	108	110	113	115	114	108	105		9
82	88	87	89	93	16	16	100	103	106	108	111	113	113	105	102		9
	86	86	88	95	96	93	101	102	105	101	110	112	112	105	100	~	9
	84	9.4	86	8	16	91	98	100	103	105	108	110	109	103	98	0	9
	81	82	94	87	95	90	96	98	101	103	106	108	108	101	96	•	S
78	29	79	82	85	83	88	46	96	100	102	105	106	106	66	95		S
7.4	15	16	78	81	98	84	9.0	95	26	66	102	104	104	26	95	_	S
107															The same		

. SPL DATA MERE EXTRAPOLATED FOR THIS ANGLE.

	AS A	AS A FUNCTION OF	NO NO	ANGLE	AND DE	DISTANCE	FROM	SOURCE								OMEGA	OMEGA 8.2	A 8.2	
NOISE SOURCE/SUBJECT! F-1010 AIRCRAFT ENG. J57-P-21A GROUND RUNUP	E SOURCE/SUBJI F-1000 AIR ENG. J57-P-21 GROUND RUNUP	AIRCRAI			i w	RATION: AFTERBURNER, SINGLE ENGINE DEFLECTED FLO	URNER, MENGINE	T T X	POWER		METEOROLOGY: TEMP BAR PRES REL HUMI	PRESS HUMID	=29.	59 F 70 %	9	AIR OPE PRO 19	AIRCRAFT OPERATION PROFILE VE 19 DEC 75 PAGE D2	CODE	030 01003 A
DISTANCE	,	10	50	30	9	5.0	9	2.0	ANGLE	•	(DEGREES) 90 100	110	120	130	140	150	160	>170	>180
200	118.6			120.		126.	123.9	129.7	131.5	134.7	137.	0	144.2	m	m		-	107.0	
315	113.5	115.0	114.1	115.			119.5	125.2	129.3	130.2		20 00	139.7	~ ~	~ ~		-	102.6	
400	111.2			113.		119.	117.2	122.9	124.7	127.9	130	m	137.5		0			100.3	
500	106.8	110.3	109.4	111.2	113.9	117.4	114.8	120.4	122.3	125.4	127.9	131.9	135.2	135.5	131.6	127.8	108.1	98.0	85.0
900	103.7		104.2	106.		112.	109.6	115.2	117.1	120.5	122.	- 00	130.3		0		-	95.8	
1000	101.0	102.3	101.4			109.4	107.3	112.4	114.3	117.4	120.0	124.1	127.8	128.2	M		100.4	90.1	79.6
1250	98.3			101.0		106.4	-			114.4	117.	2	125.1	10	-		97.5	87.1	76.7
16 00	95.4					103.	101.3			111.3	113.	-	122.2	.0	.0		4.46	84.0	73.5
2000	92.3		92.0				98.2		104.8	107.9	110.	0	119.2			112.1	91.2	80.8	70.3
3150	84.2	83.9		87.6	4000	92.4	4 . 40	98.2	161.6	1000	103.1		111.6	112.0		104.4	83.7	73.3	62.7
000+	79.4						96.2			95.9	66	10	107.4			10001	79.3	68.9	58.0
2000	74.2		75.				81.4			91.1	94.	~	102.7	_	•	95.4	74.6	64.0	52.9
6300	69.1						76.4			86.2	99	94.3	97.8	~	-	90.5	9.69	58.8	47.0
8000	65.5	65.3	0.09				72.3			81.9		90.2	93.9	84.3	N	86.7	65.5	54.5	45.1
10000	60.9	1.09	61.5	65.	66.8			72.4	74.0	77.4	40.7	85.9	89.6	90.1	86.1	82.6	61.0	9.64	36.0
12500	56.1			60.	61.8			67.5	69.0	72.5	75.7	81.1	85.0	85.5	81.6	78.1	56.1	43.6	29.4
16000	50.6			54.	56.4			61.9	03.6	67.1	70.3	15.9	83.0	80.5	76.8	73.2	9.09	37.9	20.0
20000	45.2	***1	* * * *	48.8	50.6	53.0	51.4	55.8	57.4	61.3	9.49	70.2	74.4	75.1	71.6	6.79	44.3	29.0	6.7
25000	28.6				1 77			0	0		1		0						

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

		2	1 1000	5	AS A FUNCTION OF ANGLE	-	AND DESTANCE	ביאחת אחמים	SOUTE								I ESI		070-+00-+/	
2	NOISE SOURCE/SUBJECT: F-1000 AIRCRAF ENG. JS7-P-21A GROUND RUND	E SOURCE/SUBJE F-1000 AIRC ENG. JS7-P-21A GRUUND RUNUP	AIRCRAFT AIRCRAFT -214 4UP	- =		OPER	OPERATION: SINGLE ENGINE DEFLECTED FLO	JRNER, M ENGINE TED FLOW	¥ x	POWER		METEOROLOGY: TEMP BAR PRES REL HUMI	PRESS HUMID	= 29. 0 08	L H X	5	A IRCK	E CE	CODE CODE ERSION	030 01003
13	UISTANGE (FEET)	•	3	25	30	D	20	0,	2	ANGLE		(DEGREES) 90 100	110	120	130	140	150	160	>170	180
	200	119.2	121.2	118.5	121.		127.7	123.9	129.7	131.5	134.7	137.1	142.2	145.5		141.5	138.0	117.0	107.0	96.8
	250	117.0	119.0	116.3	119.1		٠,	121.7	127.5	129.3	132.5	134.	140.0					114.8	104.8	94.6
	400	112.5			114.			117.2	122.9	124.7	127.9	130.3	135.5	138.8	139.1	135.1	131.5	110.4	100.3	90.06
	200	110.1			112.	113.9		114.8	120.4	122.3		127.	133.1	136.5	136.9		m	108.1	98.0	87.6
	030	107.6		106	109.		116.	112.2	117.9	119.7	122.9	125.	130.6			130.5	0	105.7	95.5	85.0
	0	104.3	100.9	7	107.	100.0	113.3	109.6	115.6	117.1		162.1	128.0	131.6	132.0	128.1	124.6	103.1	95.8	95.4
-	1000	102.3	104.1	101.4	104.	106.2	110.5	107.0	112.4	114.3	117.4	120.0	125.3	129.1	129.5		122.0	100.4	90.1	79.6
	1250	99.5	-		102.			134.2	109.4	111.4	114.4	117.1	122.4			122.7	m	97.5	87.1	76.7
	1630	9.96			66			101.3	106.2	108.2	1111.3	113.9	119.3	123.			116.5	4.46	84.0	73.5
	5300	93.6			96		-	98.2	102.7	104.8	107.9	110.6	116.2	120.	0		113.5	91.2	80.8	70.3
	2500	89.7			95.			4.46	98.9	101.0	104.1	106.	112.9	116.8			109.8	87.5	77.1	9.99
	3120	000			9			30.4	95.2	96.8	1001	103	109.3	112.9		٠.	105.8	83.7	73.3	62.7
	200	75.6	75.6	75.9			0.00	99.5	200	36.5	25.5	33.0	104.0	100.4	100.0	104.6	101.5	2.67	000	200
	6330	69.6		70.		75.4		76.4	81.2	82.3	86.2	89.	94.8	98.4	98.7	94.5	91.1	69.69	58.8	47.0
	9770	4.69	65.6	66.0	69			72.3	16.9	78.5	81.9		90.5	94.1	9.46	4.06	87.0	65.5	54.5	42.1
4	10000	60.8	69.7	01.5	65.	00.0		61.9	72.	74.0		80.	85.9	89.6	90.1	86.1	82.6	61.0	49.6	36.0
7	12500	50.1				9	64.7	63.0	67.5	69.0	72.5	75.7	81.1	85.0	85.5	81.6	78.1	56.1	43.6	29.4
7	16000	50.9	50.1	21.0	54.			9.75	61.	63.6		70.	15.9	80.0	90.5	76.8	73.2	9006	37.0	20.0
2	20000	45.2	* * *	;	48.			51.4	55.	57.4			70.2	74.4	75.1	71.6	6.79	44.3	29.0	6.7
7	25000	38.6	37.5	37.3	*1.			45.2	.64	50.8		58.	63.7	689	2.69	66.2	62.5	36.6	17.4	

	NO N	A FUNCTION	90	ANGLE A	AND OI	DISTANCE	FROM S	SOURCE) TEST	- 0	74-004-020	
NOISE SOU	SE SOURCE/SUBJECT: F-1060 AIRCRAFT ENG. JST-P-21A GROUNG RUNUP	E/SUBJECTS AIRCRAF 7-P-21A RUNUP	-17		OPER	OPERATION: AFTERBURNER, MA SINGLE ENGINE DEFLECTED FLOM	JANER, ENGINE	: ×	POWER		METEOROLOGY S TEMP BAR PRES REL HUMI DELTA N =	OLOGY:	= 59 S = 29.92 D = 70	L H X	9	PAG	AIRCRAFT COPERATION CO	STON	030 01003
JISTANJE (FEET)	•	150	20	36	3	3	3	20	ANGL		(DEGREES) 90 100	110	120	130	140	150	160	>170	×180
200	104.0	104.7		107.	110.4		1111.0	116.5	118.	121.6		128.	131.6	131.6	m	123.6	103.6	93.6	83.6
250	161.9	102.6	102.4	105	108.3	111.3	108.8	114.3	116.2	119.4		126.3	129.5	129.5	N .	121.5	101.5	91.5	81.5
004	97.6			101	103.9		104.5	109.9		115.0		121	125.2	125.3		117.3	97.2	87.2	77.
2.0	95.4		95.9	.66	101.7		102.3	107.7		112.7		119.	123.0	123.1	00	115.2	95.0	85.0	75.1
630	93.1		93.0		99.5	102	100.0	105.3	107.	110.4	113.7	117.4	120.7	120.9		112.9	95.8	85.8	72.
900	90.8	91.3	91.3	6.46	97.1	100	1.16	102.9		108.0	111.4		118.4	118.6		110.7	90.5	80.5	70.
1000	84.5	84.9	88.9	92.	94.8			100.5	102.3	105.5			116.1		112.0	108.4	88.1	78.1	68.1
1250	86.0		86.4	89.	92.3			97.9	2.66	103.0			113.6		109.5	105.9	85.6	15.6	65.6
1600	63.4	63.	83.7	87.	89.7		90.	95.3	97.1	100.3	103.9	107.	111.0	111.	107.0	103.3	83.0	73.0	63.0
2000	9.70	63.	81.0	84.	87.1			95.5	94.3	97.5	101.2	105.	108.3		104.3	100.7	80.3	70.3	60.
2500	77.7		78.0		84.1	86.6	34.	89.5	91.3	94.5	98.2	102.	105.3	105.6	101.2	4.76	77.4	67.4	57.
3150	74.2	74.2		78.	80.8		81.	86.3	88.0	91.3	95.0	98.	102.0	102.3	6.76	4.46	74.2	64.2	54.
2004	10.4	70.3		74.	17.2			82.7	84.4	87.6	91.5		98.4	98.6	94.2	9006	10.6	9.09	50.6
2000	0001			70.	73.2		73.	78.6	80.3	83.5	87.5	91.	94.2	4.46	90.0	86.3	9 • 9 9	9.95	46.1
6300	61.6			99	68.8		69	74.2	75.9	79.1	83.2	86.	89.8	90.0	85.5	81.9	62.2	55.2	42.
8000	6.15		58.6	62.	64.8		65.	70.1	711.7	75.0	79.1		85.9	86.2	81.8	78.2	58.5	48.2	38.
13000	53.6	53.6	54.4	58.3	60.5	62.8	01.0	65.7	67.3	70.6		78.	81.7		77.8	74.3	53.9	43.9	33.
12500	49.5		49.9	53.	55.8		56.4	60.8	62.4			73.	77.1			6.69	49.2	39.5	29.
16000	44.7		6 ***	48.7	50.6	52.7	51.3	55.5	57.1	4.09	64.4	68.8	72.1	72.6	68.6	65.2	44.1	34.1	24.1
20000	39.5	39.1	39.5	43.	44.9		45.8	49.7	51.3	24.6		63.	66.7		63.4	6.65	38.6	28.6	18.6
00000																			

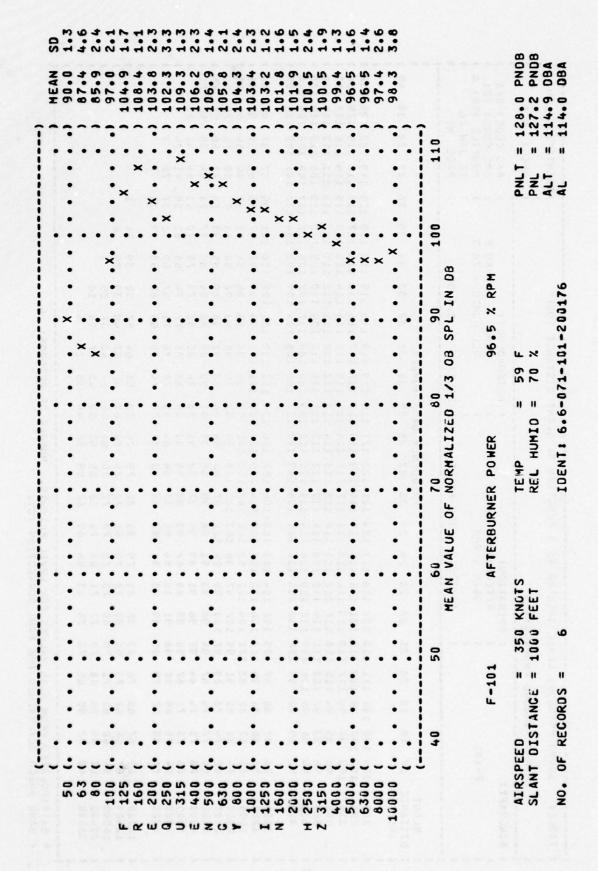
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

	AS A	FUNCTION	OF.	ANGLE A	AND DIS	DISTANCE	FROM S	SOURCE) TEST		74-004-020	
NOISE SI	OURCE/S	AIRCRAF	-=		OPER	RATION: AFTERBURNER, MA SINGLE ENGINE DEFLECTED FLOM	RNER, ENGINE	×	POWER		METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	PRESS HUMID	=29.	59 F 92 IN H 70 %	9	A AIRCO OPER 19 D 19 D PAGE	AIRCRAFT (OPERATION (PROFILE VER 19 DEC 75 PAGE 62	CODE CODE RS ION	030 01003
DISTANCE (FEET)		10	50	36	9	50	9	7.0	ANGLE		(DEGREES) 90 100	110	120	130	140	150	160	>170	180
200	135.3	106.5	104.6	108	110.4	114.	1111.0	116.5	118.4	121.6	124.7	129.6		133.0	128.5	-	103.6	93.6	83.6
250	103.2				108.3	=	108.8	114.3	2	119.4	122.6	127.5	130	6			101.5	91.5	81.5
315	131.0			104.	106.1		106.7	112.1	0	117.3	120.4	125.3	128.	80		6	4.66	4.68	79.4
004	98.9			102.	103.9		104.5	109.9	8	115.0	118.2	123.1	126.	9		80	97.2	87.2	77.2
200	2.96		626	100	101.7	105.7	102.3	107.7	2	112.7	116.0	150.9		+	120.0		95.0	85.0	75.0
630	4.46			97.	99.5		100.0	105.3	N	116.4	113.7	118.6	122.			*	95.8	85.8	72.8
2	92.1		91.3		97.1		1.16	102.9		168.0	111.4	116.3		0		4	90.5	80.5	70.5
1000	89.7	99.6	88.9		94.8	98.6	95.3	100.5	102.3	105.5	118.9	113.9	117.4	117.6	113.2	109.8	88.1	78.1	68.1
1250	87.2		86.	90.6	92.3	96	92.	97.9	~	103.0	106.	111.4	114.9	7		107.4	85.6	75.6	9.59
1630	84.7			88.	89.7		90.	95.3	97.1	100.3	103.	108.8	112.3			104.8	83.0	73.0	63.0
2000	82.0	82.6		85.	87.1		87.	95.5	m	97.5	101.	106.2	109.6			102.2	80.3	70.3	60.3
2500	78.9			82.	84.1		84.	89.5	2	94.5	98.	103.2	106.6			99.1	77.4	4.19	57.4
3150	75.5			79.	80.8			66.3		91.3	95.	100.0	103.3		99.1	95.8	74.2	64.2	54.5
0000	71.4		71.	75.	77.2		7.77	82.7	+	87.6		96.2	4.66	1		91.8	9.02	9.09	50.6
2000	600				73.2	76.	73.6	78.6	m	83.5	87.	91.8	95.0	2		87.2	9.99	9.99	46.6
6300	62.1		62.	99	68.8	71.	69.5	74.2	6	79.1	83.	87.2	90.3			82.5	62.2	55.2	42.2
9300	58.1	1 58.0	58.0		64.8	. 29	65.3	70.1	2	75.0	79.	83.0	86.2	86.5	-	78.5	58.5	48.2	39.5
10.00	53.8	63.6	54.4	5	50.5	62.A	6.1	66.7	57.3	70.6	74.	78. 5	81.7	82.1	77.8	74.7	6.2.0	43.0	22.0
12500	49.5			53.8	55.8	58.0	36.4	63.8	62.4	55.7	69.8	73.9	77.1	77.5	73.4	6.69	19.2	39.2	29.2
16000	44.7			48.	50.6	52.7	51.3	55.5	57.1	4.00	64.	68.8	72.1	72.6	68.6	65.2	44.1	34.1	24.1
20000	39.5		39.5	43.	44.9	47.0	45.8	49.7	51.3	54.6	58.	63.1	66.7	67.2	63.4	58.6	38.6	28.6	18.6
25000	33.8	33.		37.	38.7	40.7	39.7	43.4	45.0	48.2		56.9	60.7	61.3	57.7	54.5	32.8	22.8	12.8

### 500 CENTER CONTRICT CONTR	SOURCE/SUBJECT: 1000 AIRCRAFT NG. J57-P-21A ROUND RUNUP (
10	10 ((OPERATION: (AFTERBURNER, MAX (SINGLE ENGINE (DEFLECTED FLOM) METE)))) DELT	0671 = 59 F PRESS =29.92 IN HUMID = 70 %	HHAR
10	0 T 2 S		P=PNLT	=AL	T=ALT	
10 (20 10 20 20 20 20 20 20 20 20 20 20 20 20 20			AI	d	
20	50 5			T #	<u>a</u>	
30 (•••	*		
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7.0 8.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1						
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100 (110 (120 (130 (140 (150 (•
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. SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

F-101														F-101	F-101
AIRCRAFT													> 0	AIRCRAFT	AIRCRAFT
F-101						PAGE	. 67-75 . 76-84 . 85-93 . 94-102		AFT	SELT, EPNL)	SELT, EPNL)		8 0 R A T 0 R O H I	F-101	F-101
F-101 AIRCRAFT F-101 AIRCRAFT F-101 AIRCRAFT F-101 USAF F-101 AIRCRAFT F-101 USAF USAF		GROUND BY	AFT	TIONS	SHA	0		A ARE PROVIDED	MALIZED MEAN SPL SPECTRUM AT PNLM SE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT AIR-TO-GROUND PROPAGATION	PNL, PNLT, SEL,	PNL, PNLT, SEL,		4.0 0.0 1.1 1.1 8.1 8.1 8.1	AIRCRAFT	AIRCRAFT
F-101 F-101		PRODUCED ON THE GROUND	01 AIRCRAFT	DURINS FLIGHT OPERATIONS	FLYOVER MEASUREMENTS AIRCRAFT CODE: 071 PROFILE VERSION: A	בי ביינים		OLLOWING DAT	AT PNLM S SLANT DISTA	LT,	LT,	20 JAN 76	A A I A A I A A I A A I A A I A A I A A I	F-101	F-101
AIRCRAFT		NOISE PRO	F-101	DURING	FLYOVER AIRCRAF PROFILE		5% RPM	EACH POWER SETTING, THE FOLLOWING DATA ARE	SPL SPECTRUM A FUNCTION OF ND PROPAGATION	SOUND PRESSURE LEVEL SPECTRA SINGLE EVENT MEASURES (AL, ALT, GROUND-TO-GROUND PROPAGATION	SOUND PRESSURE LEVEL SPECTRA SINGLE EVENT MEASURES (AL, ALT,		E E E E E E E E E E E E E E E E E E E	AIRCRAFT	AIRCRAFT
F-101						POWER SETTING	AFTERBURNER 96.5% RP. TAKEOFF 96.0% RPM . APPROACH 89% RPM . INTERMEDIATE 88% RPM	FOR EACH POWER	NORMALIZED MEAN SPL SPECTRUM AT PNLM NOISE LEVELS AS A FUNCTION OF SLANT AIR-TO-GROUND PROPAGATION	SOUND P SINGLE GROUND-TO-G	SOUND P		A 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	F-101	F-101
AIRCRAFT						41	4H4H	A.I	NN				₩ & Z	AIRCKAFT	AIRCRAFT
F-101 F-101														F-101	F-101 F-101



					-		מו בכי אה	2		1010		5			10000	1001				: .	-	21	TOCHITLICATION	
	AIR-	10-6	AIR-TO-GROUND	U PRO	OPAG	ATION	z														OMEG	4	9.9	
A IRCRAFT :	F-101	н				OPER A A	ATIO FTER 96.5	BURN R R R	PH P	0 0	ER KNOTS	6 7 8	2000	ETEC	TETEOROLOGY TEMP REL H DELTA N =	067: HP HUMI	= 01	70	ш×		A/C OPS PROF 20 J	CODE CODE JAN 7	W	071 101 R: A
SLANT DISTANCE (FEET)	17	18	19	20	12	22	23	24	25	FREQ 26	QUE 27	NCY B	29	NUMBE 30	31 31	32	E E	# m	35	36	37	88	39	3
250	104	102	100	111	119	123	118	117	124	121	122	121	119	119	119	118	119	118	1119	120	119	122	128	137
		98		107	115	119	114	113	120	117	-	116	115	115	115	114	1 7	114	115	115	114	116	122	130
	98	95		105	113	117	112		118	115	115	114	113	112	112	111	-	111	112	113	111	113	118	125
	96	3 2		101	109	112	108	106	114	110	4 4	110	109	108	108	107	10	106	107	107	104	106	109	114
800	92	68		66	101	110	106	104	111	108	0	108	107	106	106	104	0	103	104	103	101	102	104	101
1000		87	96	16	105	108	104	0	>601	90	107	106	0	0	103	102	102	100	101	66	16	26	16	96
1250	88	85	84	95	103	106	102	100	107		105		102	101	101	66	66	97	46	95	92	91	90	88
1600	86	83	82	93	101	104	100	9 8	105	05	102		66	98	96	96	96	46	93	90	98	84	81	16
2000	48	81	80	16	66	102	26	96	103		100	66	26	96	95	93	95	90	88	85	80	92	2	61
2500	200	25	2	6 6	6	100	60	5	101		9 0	9 6	4 6	93	26	6	60 6	0.00	93	2 8	73	9 4	25	40
0004	78	12	25	9	92	96	91	6 8	96	92	92	91	1 80	86	85	8 6	6	75	2	6.1	200	6.1	25	13
2000	92	73	11	82	90	93	88	18	93		90	88	85	83	81	77	74	58	62	20	41	54		
6300	74	11	69	80	88	91	98	9 4	91		98	8	81	78	92	17	67	9	51	37	56	m		
0708	11	69	29	18	98	68	93	81	88		83	80	11	7.4	2	65	9	20	39	21	~			
10000	69	29	99	92	83	98	81			80	79	92		68	49	57	20	39	54	-				
12500	29	9	62	73	81	83	18	92	81	11	15	12	19	62	25	48	39	52	9					
16000	69	62	69	7.1	18	90	15			72	20	99		24	48	37	56	00						
20000	63	29	28	68	15	11	7.1			68	65	9		42	37	54	10							
25000	6.0	67	u	7	12	77	8 9			65	9	22		35	26	a								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6

* BAND WHICH DETERMINES THE TONE CORRECTION (C).

חברי עדע	AIR-TO-GROUND PROP	AGATION						OMEGA 6.6
AIRCRAFT: F-101		(OPERATION: (AFTERBURNER (96.5 % RPM	ER POWER		HETEOROLOGY : TEMP REL HU	Y: = 59 HUMID = 70	9 7 0	A/C CODE: 071 OPS CODE: 101 PROFILE VER:
× 1 2008		(AIRSPEED :	= 350 KNOTS	S	DELTA N = 0	0.0 08	^^	20 JAN 76 PAGE I1
SLANT DISTANCE	Ą	ALT**	PNL	PNLT**		SEL	SELT**	EPNL
(FEET)	(08A)	(084)	(PN08)	(PNDB)		(80)	(00)	(EPNDB)
200	136.8	137.6	150.0	150.9		133.2	134.1	137.0
250	133.6	134.5	147.1	147.9		131.1	131.9	135.1
315	130.3	131.1	143.9	144.8		128.7	129.6	132.9
00+	126.8	127.7	140.6	141.4		126.3	127.2	130.6
200	123.4	124.2	137.0	137.8		123.8	124.7	128.0
630	120.0	120.9	133.4	134.2		121.5	122.3	125.4
900	116.9	117.8	130.4	131.2		119.4	120.2	123.4
1000	114.0	114.9	127.2	128.0		117.5	118.4	121.2
1250	111.3	112.1	123.8	124.7		115.7	116.6	118.8
1600	108.5	109.4	120.4	121.3		114.0	114.8	116.4
2000	105.8	106.6	117.4	118.2		112.2	113.1	114.4
2500		03	114.3	115.1		110.4	111.3	112.3
3150	100.0	100.9	1111.1	112.0		108.5	109.4	110.1
0004	97.1	7.16	107.9	108.6		106.5	107.2	107.8
5000	93.9	4.46	104.7	105.2		104.4	104.9	105.3
6300	2.06	91.0	101.3	101.6		102.1	102.5	102.8
8000	87.3	87.5	8.16	98.0		1.66	6.66	100.1
10000	83.7	83.7	94.5	94.5		97.2	97.2	97.3
12500	6.62	6.67	90.4	90.4		4.46	4.46	94.5
16000	75.9	75.9	86.2	86.2		91.4	91.4	91.4
20000	71.7	71.7	81.9	81.9		88.1	88.1	88.0

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

315 (TEMP = 59 F REL HUNID = 70 % 316 (DELTA N = 0.0 DB 400 (NO. OF RECORDS! 6 500 (NO. OF RECORDS! 6 1000 (NO. OF RECORDS! 6 500 (NO.	315	70.0%	TOO TOO TOO	CHEN					
315 (TEMP = 59 F REL HUNID = 70 % 400 (NO. OF RECORDS! 6 500 (NO.	315	AIRSPEE	PH 350			•	•		n
630 (. TEMP =	F REL	= 70	•	•	•	ST E	
500 (004	NO. OF	CORDS: 6		•	•	. ST	w •	
630 (200						ST.	E	•
1000 (ST E	•	
1000 (ST E	•	
1250 (18	T .E		•
1600 (. ST	E.	•	
2500 (10 10 10 10 A	•		. STE			
2500 (. STE .			
3150 (10	10 CO 20 CO			STE	20 000 000 000 000 000 000 000 000 000	200	
\$000 (** *** *** *** *** *** *** *** *** ***		•	TE	2 2 2 2 2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		
5000 (. STE	•			
6300 (•		•	Sx	•	•	:	•
8600 C					• XE				
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	10000	•		•	•		• • • • • • • • • • • • • • • • • • • •	TO COOLING	. 5
· · · · · · · · · · · · · · · · · · ·	12500	•		*	TO SERVICE OF THE PARTY.		, m +	w v	
16000 (· · · · · · · · · · · · · · · · ·	16000	STAND STANDS	SHOT SHOWN STAIN	×	•		. ω	= SEL	
20000 (20000			· · · · · ·			:		•
25000 (25000								-

. 405.5	Soun	SOUND PRESSURE	ESSI 0-68	SOUND PRESSURE LI	A	PAG.	ATTON	4 Z	A F	FUNCTION		OF SI	SLANT	018	DISTANCE	E (08)	• 6			• • •	IDEN	IDENTIFICATION	ATIC A.A	Z
AIRCRAFT		-			1	00	AFTER 96.5	AATION: NFTERBURNER 96.5 % RPM AIRSPEED = 3		POWER 50 KN	ER KNOTS			METE	OROL OROL RE	MP L HUMI		1 20	E 8	1	P 2 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9	S CO OF IL	DE 1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 P
SLANT DISTANCE (FEET)	11	18	61	20	22	22	23	2,	25	E 82	EQUE:	NCY 28	BAND 29	NUM	BER 31	32	33	34	35	36	37	38	66	7
200 250 315	99	95	93	106 104 102	===	118 116 114	225	440	119 117 115	116 114 112	117	114	===	###	===	1111	111	111	===	===	114 111 109	===	123 120 117	132 129 125
200 200 800 800 800	93	98 8 8 4	85 85 85 83	98 96 96	108 106 103 101	111 109 106 104	167 104 102 99	106 103 101 98	111 111 109 106	110 108 105 103	110 108 106 104	109 107 105 103	108 106 104 102	107 105 103 101	105	106 104 102 99	105	106 104 101 98	107 105 102 99	108 105 102 98	106 103 99 96	108 105 101 97	1113 109 104 99	120 115 109 102
1000	85	82	81	91		-	00		104	<101 99	102	101	00			6 6	9.0	9.0	9	9		98	92	93
2500	81 76 74	222	223	48 8			0000		96	95	95	3 4 5	000			0.00	0.00	∞ ∞ ≪	000	0 00 N		223	65	71
3150	99	600	225	2233	182	122	202	69	86	82	0.00	8 8 6 5	9 9 9 9	8 6 7 7 6 6 6	9 8	141	52.2	22	75	500	0.00	36 36	127	16
6300	226	4 2 2 2	457	26			non		000	719	73	75	2 ~ ~			- 00	noo	t via	n + m	* M +1		2		
12500	164	7425	3 4 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	525	53.00	50.00	525	427	5000	4 2 3 3	6.00	2000	501	57 63	525	22.50	245	30 30	10					
25000	4	37	33	17	2		1 3	3 4 5	47	1 9	4 0	たっと	* M	r m	7 -	•								

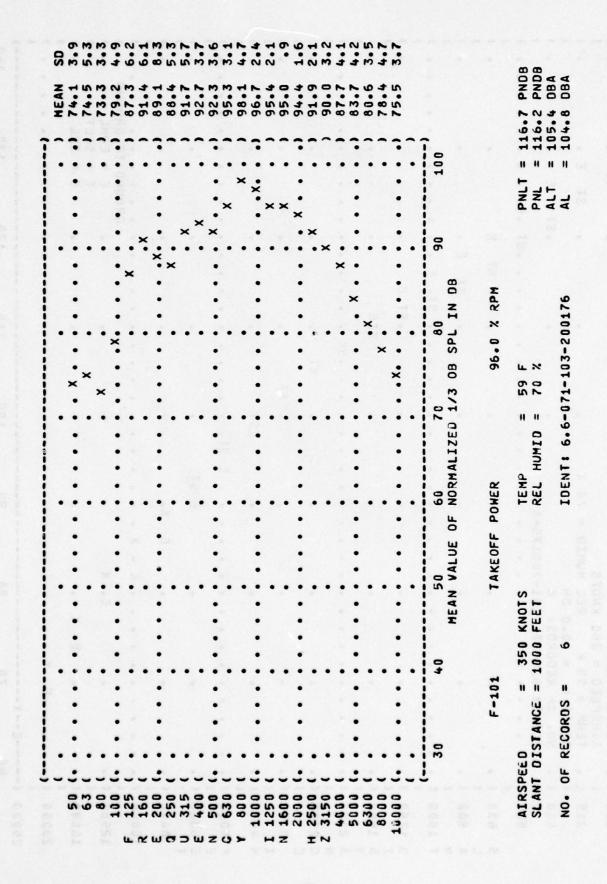
* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6 S BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE E	SINGLE EVENT NOISE	E AS A FUNCTION	IN OF SLANT	DI STANCE *			~	IDENTIFICATIONS
	GROUND-TO-GROUND	PROPAGATION						OMEGA 6.6
AIRCRAFT: F-101		(OPERATION: (AFTERBURNER (96.5 % RPM	NER POWER RPM	2000	METEOROLOGY TEMP REL H	GY t P HUMID =	59 F)	A/C CODE: 071 OPS CODE: 101 PROFILE VER: A
4 7 8888		(AIRSPEED	= 350 KNOTS	. SI	DELTA N =	0.0 08		PAGE M1
SLANT DISTANCE	AL	ALT**	PNF	PNLT**		SEL	SELT**	EPNL
((FEET)	(DBA)	(DBA)	(PN08)	(PNDB)		(08)	(08)	(EPNOB)
500	131.6	132.8	145.0	146.0		128.2	129.3	132.2
(250	128.6	129.6	2	143.1		126.1	127.1	130.2
315	125.3	126.3	138.9	139.9		123.7	124.8	128.1
004	121.8	122.9	135.6	130.6		121.3	122.3	125.7
906	118.4	119.4	131.9	132.9		118.8	119.8	123.1
630	115.0	116.0	128.3	129.3		116.5	117.5	120.5
708	111.9	112.9	125.2	126.2		114.3		118.4
1000	109.0	110.0	121.9	122.9		112.4	113.4	116.1
1250	106.1	107.1	118.4	119.4		110.5		113.5
1600	103.2	104.2	114.6	115.6		108.7	109.7	110.8
2000	100.3	101.3	110.8	111.9		106.7	107.8	108.0
(2500	97.2	98.2	107.1	108.1		104.6	105.6	105.3
(3150	93.7	2.46	102.9	103.9		102.1	103.2	102.1
4500	89.0	2.06	98.3	99.1		99.3	100.2	98.2
2000	92.0	7.98	2000	5.00		0.06	36.7	0.46
	76.8	77.1	0 8	4 000		96.04	95.0	86.1
							9	•
10000	72.2	72.2	79.3	79.3		85.6	85.6	82.4
12500	67.3	67.3	1.47	74.4		81.7	81.7	78.6
16000	61.9	61.9	6	69.1		77.3	77.3	74.3
20002	26.0	56.0	63.3	63.3		72.4	72.4	69.5
25000	9.64	9.64	ė	56.8		67.0	67.0	63.9

** EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6

F-101 96-5 X RPH 8-6 X RPH 8-7
ERBURNER POWER (NOTS EL HUHID = 70 X B 6 10-200176-A A+ A+ A+ A+ A+ A+ A+ A+ A+
POWER = 70 % A+ *P *P A+ *P
A+ *P
A
GROUND TO
TO GROUND PNLT PNL ALT ALT

250 (.	315 (•	. 004	500 (630 (800 (1000 (1250 (.	1600 (.	2000 (.	2500 (.	3150 (.	* 0000	2000 (6300 (•	.) 0008	10000	12500 (.	16600 (20000 C.	25000 (
F-101 96.5	AIRSPEED TEMP = 59	NO. OF	10EN			2			:				:	H 18		:				XEX
1 5 % RPM	PEE0 =			-110	•		•	•			•	•		•	•		•	•	•E• x	XX
ă	. 350 F	RECORDS:				•							•			•		Ü	:	
FTERBI	REL	9 9		•	•3		•	•	•	•	•	•	•	•	•		E. J	×		
TERBURNER	KNOTS REL HUMID	200176				•									ш	. ×	×		•	
POWER	= 70			90	•	•	•	•		•	•	•	•	W	×	•	•	•		
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		10-6	AIR-TO-GROUND F	IO PRO	ROPAG	GATION	Z														OME	MEGA	9.9	
AIRCRAFT	F-101	-				OPE	TAKEOFF 1AKEOFF 96.0 % AIRSPEE		POWER #	~ 5	KNOTS			METE	OROL OROL RE			= 59	F %		A/C OPS PROF 20 J	5552	DE: 071 DE: 103 E VER: 76	71 03
SLANT DISTANCE (FEET)	17	18	53	20	2	22	23	54	52	FRE 26	EQUENCY 27 26		BAND 29	NOW	BER 31	32	83	46	35	36	37	38	66	9
200 250 315	8 8 8	89	85	93	101 99 97	106	163 101 99	103 101 99	106	107 105 105 103	105	110 108	1111	112 110 110	111	1111 109	1111 109 106	109	106	108	105	105	107	1111108
500		83	79	87	95	100		00	00	101	101		101	101	101	00	00	00	101	100	90	96	86	00
800		23	75	83	91	96		9	96	95	94		22	10	10	00	90	95	98	94	91	82	8 4	8 8
1000		75	73	73	87	91	68 >		92	93	92		00	76		60	46	92	90	88	40	81	78	75
1600		22	69	12:	8 8	8 2	8 2		87	88	9 9		. 0	92		. 6	89	86	8 6	62	7.7	69	2 3	200
2500		66	65	22	79	83	83		8 2	86	83		0.00	86.9		10 10	82	78	52	2 8 9	69	23	25	26
3150		62	63	69	72	79	78		78	79	81		∞ ∞	84		0 r	73	73	62	53	t 22	31	11 38	-
5000	58	28	59	65	73	22	74 22	73	73	22	75	78	79	73	22	7.1	68	55	2 2 2	31	34	15		
8000		96	22	09	99	72	69	9	1	72	69		~	68		9	22	46	46	17	m			
10000	53	27	20	58	63	69	9 4 9	65	6 6	64	66	63	63	58	52	53	37	36	27 2					
16000		42	4 4	53	58	64	58	n n	OIV	96	52	58	n n	51	44	m 0	25	•						
25000		77	27	44	20	SA	75	r	u	51	1.7	4.0		22	25									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6 ** BAND WHICH DETERMINES THE TONE CORRECTION (C).

AIR-TO-G	ATR-TO-GROUND PROF	PAGATION					•	OMFGA 6.6
							1	
AIRCRAFT:		(OPERATION:	POWER		METEOROLOGY 8	6 Y 8	6	A/C CODE # 071
F-101		2 0.96	RPM		REL	REL HUMID =	70 %	ILE VE
		(AIRSPEED	1 = 350 KNOTS	115	DELTA N =	0.0 08	^^	20 JAN 76 PAGE 12
SLANT DISTANCE	Ą	A1 T **	ď	T ING		SEL	SELT	P NO.
(FEET)	(08A)	(DBA)	(PNDB)	(PN08)		(08)	(08)	(EPNDB)
200	121.3	121.9	133.7	134.3		119.8	120.9	123.2
250	119.1	119.6	131.4	132.0		118.6	119.7	121.9
315	116.8	117.3	129.1	129.6		117.3	118.4	120.5
004	114.5	115.0	126.6	127.2		116.0	117.1	119.1
200	112.1	112.7	124.2	124.7		114.6	115.8	117.6
630		110.3	121.6	2		113.3		116.0
900	107.3	107.9	118.9	119.5		111.8	112.9	114.4
1000	104.8	105.4	116.2	116.7		110.3	111.4	112.6
1250	102.2	102.8	113.3	113.8		108.7	109.9	110.7
1600	99.66	100.1	110.2	110.7		107.1	108.2	108.6
2000	96.8	97.3	107.0	107.5		105.3	106.4	106.4
2500	63.6	4.46	103.5	104.1		103.4	104.5	104.0
3150	90.8	91.4	6*66	100.4		101.3	102.4	101.3
0004	87.6	88.0	7.96	6.96		99.1	100.0	7.86
5000	84.2	94.5	95.8	93.1		9.96	97.3	95.8
33	86.5	80.7	89.0			0.46	4.46	92.7
9000	16.6	76.7	84.8	6.48		91.1	91.3	4.68
10000	72.5	72.5	80.4	90.4		87.9	87.9	85.7
12500	68.0	68.0	76.2	76.2			84.5	82.5
16000	63.3	63.3	71.6	71.6			80.8	79.0
20000	58.4	58.4	66.7	2.99		16.9	76.9	75.0
00000						•		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

25	115	:	2006	630	800	1000 0	1250 (1600 (2000 (2500 (3150 (0000	2000	6300 (90000	10000	12500 (16000 (20000 (25000 (
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96.0	2 2	. 0				:											×		×	
×	59	2 2 4	•	•	•	•	•	•	•	,•		•	•		•	•	•	•	•	- 2
4	٠ <u>.</u>	500											:			×		×		
	350	RECORDS:	•			•			•				•		×	•	×		•	
AKE	REI	9 6		ii.	4									•		•		10.0		
KEOFF	2 ± 2	900				•			•				•	×		•			•	8.0
POWER	REL HUMID	900176											×		×	:				
EX.	"	1							•			×	•	*		••			•	
	7.0								:		×		•	×.		:			:	6
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	GROU	1-ON	GROUND-TO-GROUND	ONNO	PRO	OPAGATI	TION														OMEG	•	9.9	
AIRCRAFT	F-101	-		11111		OPER T	S - S	X = 0	PH 35	TONA	1 018			ETEO ELTA	ROLOG TEMP	- 5 6	" 01	59	L ×	7	A S S S S S S S S S S S S S S S S S S S	COO	6 K H O	111 03
SLANT DISTANCE (FEET)	17	1.8	139	20	12	22	23	24	55	FRE 26	QUENCY 27 28	CY B	AND 29	NUMB 30	ER 31	32	83	34	35	36	37	80	39	1 3
200	63	98	85	88	96	101	96				~	0	0	107	90	90	90	0		2	100	001	~	10
315	79	80	78	84	4 0	96	9 6	96	99	96	98	103	106	105	104	104	104	102	101	98	95	76	96	103
904	11	18	120	82	90	36	95			96	9	9	0	101	66	66	66	0	96	95	95	91	63	6
200	75	92	1.	80	88	95	90			46	46	26	0	96	16	46	46	95	76	36	68	88	89	σ
630	73	14	72	18	96	89	87			95	95	96	16	96	95	95	95	95	91	89	98	84	84	00
800	7.1	72	20	92	83	87	40			06	68	93	95	76	93	93	35	06	89	98	83	80	13	~
1000	69	20	99	73	80	84	81	81	87	88		90		95	90	90	89		85	83	62	91	73	~
1250	29	29	69	20	11	81	7.8	7.8	84	98	85	88	91	89	88	87	87	84	82	29	14	20	29	61
1600	69	49	62	99	73	11	22	14	80	83		98		87	85	85	84		78	14	69	49	66	Ŗ
2000	62	61	58	63	20	73	7.1	11	11	81		83		84	83	82	80		14	69	49	25	64	m
2500	28	25	24	28	69	69	99	99	73	11		81		81	80	28	11		69	63	25	8 4	37	ä
3150	24	55	64	53	9	79	62	61	68	73		78		19	16	15	73		63	96	64	38	23	
0004	20	47	44	48	25	58	96	52	63	89		25		15	73	7.1	89		25	48	0 4	92	9	
2000	45	43	39	43	20	53	51	20	25	63		71		72	69	99	63		64	38	58	10		
6300	40	38	35	38	45	64	94	45	51	28		99		68	69	61	25		0 4	92	15			
8000	38	36	33	36	43	46	t t	43	64	22		63		63	9	25	20		53	15				
10000	35	34	36	34	41	1	41			51		69	62	58	24		45		16					
12500	33	31	28	32	38	41	38			48		55	25	53	14		32	18						
16330	31	59	56	59	36	39	35	34	39	44	14	20	51	94	39	31	20	m						
20000	59	27	23	27	33	36	32			04		44	t	38	53		9							

9 NUMBER OF RECORDS! * EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. < BAND WHICH DETERMINES THE TONE CORRECTION (C).

	GROUND-TO-GROUND P	PROPAGATION						OMEGA 6.6
AIRCRAFT: F-161		OPERATION: TAKEOFF	POWER		METEOROLOGY : TEMP REL HU	OLOGY: TEMP = 5 REL HUMID = 7	2 × 0	A/C CODE: 071 OPS CODE: 103 PROFILE VER: A
		(AIRSPEED	0 = 350 KNOTS	118	DELTA N =	0.0 08	2 185 2	PAGE M2
SLANT DISTANCE	AL	ALTON	PNL	PNLT**		SEL	SELT**	EPNL **
(FEET)	(084)	(DBA)	(PN08)	(PN08)		(08)	(00)	(EPNOB)
200	116.3	116.3	128.7	128.7		114.8	115.4	117.6
250	114.1	114.1	126.4	126.4		113.6	114.1	116.3
315	111.8	111.8	124.1	124.1		112.3	112.9	115.0
004	109.5	109.5	121.6	121.6		111.0	111.6	113.5
200	107.1	107.1	119.1	119.1		109.6	110.2	112.0
630	:	104.8	116.5	116.5		108.2	108.8	
900	102.3	102.3	113.8	113.8		106.8	107.4	108.7
1000	99.8	99.8	111.0	111.0		105.3	105.9	106.9
1250	97.2	97.2	107.9	107.9		103.7	104.3	104.8
1600	94.5	94.5	104.7	104.7		102.0	102.6	102.6
2000	91.7	91.7	101.3	101.3		100.2		100.2
2500	88.7	88.7	97.5	97.5		98.2	98.8	4.76
3150	85.5	85.5	93.4	93.4		96.0	9.96	94.3
4000	82.0	82.0	89.3	89.3		93.5	0.46	91.1
2000	78.1	78.1	;	84.8		90.6	6.06	87.5
6300	3	73.8	6.62	6.62		87.3	87.5	
9000	69.5	69.5	3	15.4		84.0	84.1	79.9
10000	64.8	8.49	70.5	20.5		80.3	80.3	75.8
12500	9.69	9.69	65.1	65.1		70.1	76.1	71.4
16000	53.9	53.9	29.0	59.0		71.4	71.4	66.3
20000	47.5	47.5	52.1	52.1		0.99	66.0	4.09

** EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

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TAKEOFF	350 KNOTS		RECORDS: 6		* * * * * * * * * * * * * * * * * * * *	j•		•		•	•	•	•	•	7•	•	:	1 2 2 3 3 3	0.5021	M
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			MEAN VALUE OF NORMALIZED APPROACH POWER KNOTS TEMP = REL HUMID = IDENT: 6.6-
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	AIR-	10-6	AIR-TO-GROUND	AIR-TO-GROUND PRO	PA	ATIO	z	2				(mile)									OMEGA	GA G	OMEGA 6.6	199
AIRCRAFT	F-101	-				OPER A	PPROAC 89 % IRSPEE	I 0	POWE = 20	N N	KNOTS		2222	ETEO ELTA	ETEOROLOGY TEMP REL H ELTA N =	HUMI 0.0	= 0I	59	E X	1	PAC PAC PAG	A/C CODES OPS CODES PROFILE V 20 JAN 76 PAGE H3	w .	071 105 R: A
SLANT DISTANCE (FEET)	17	81	19	20	21	22	23	54	25	FRE 26	QUENCY 27 26	CY B 28	AND 29	NUMB	31	32	E E	35	35	98	37	98	39	3
200	10	83	18	46		105	100		5		0	105	0	103	103		102	102	101	66	16	91	16	9
315	80	18	22	90		101	9 6		200		101	101		101	101	5 0		100	96	36	1 6	8 2	85	9
004	7.8	11	15	88		66	16		66		9	66	0	16	26		96	95	76	95	98	82	81	8
200	92	22	23	98	93	26	95		~	76	16	16		95	46		93	93	91	89	83	62	21	7
800	72	22	69	85	91	95	9 8 8	89	93	90	93	93	94	93	96	89	98	87	8 8	85	76	22	67	65
1000	7.0	69	19	80	18	>06	98			88	91	90		88	87	87	86	84	82		72	99	61	57
1250	99	29	9	78	95	88	83			98	89	88		98	85	48	83	81	19		68	61	24	48
1600	99	69	63	92	83	98	81			84	96	98		83	82	81	80	7.8	22		62	24	46	36
2000	49	63	61	14	81	84	62			81	4 8	83		81	62	18	11	14	20		25	47	36	25
2500	79	61	23	72	62	85	77			22	85	81		78	22	75	73	202	65	29	20	37	23	51
0004	28	200	25	29	12	2 8	22			: 2	76	22.0		22	69	1.7	6 4	600	23		31	13	•	
2000	96	24	52	69	73	75	20			17	74	72		68	69	63	66	53	45		19			
6300	54	52	20 84	63	70	27	68	68	22	69	71	69	99	99	61	51	55	37	35	13	r.			
10000	54	44	4	9	4	8.9	2		4	2	44	2		7	r.	44	35		-					
12500	14	40	1	26	63	99	9		63	26	9	25		4	42	35	56	13						
16,00	42	43	1,	24	61	63	57		69	25	52	52		7	34	25	13							
20000	43	41	39	51	58	9	24	53	96	20	20	46	39	32	54	12								
25600	07	40	7.5		-	20	0		7	37		-		0										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6 SAND WHICH DETERMINES THE TONE CORRECTION (C).

F-101 SLANT DISTANCE (DBA) (FEET) (DBA) 200 113.4 250 1113.4 250 111.3 315 100.0 100.0 100.0 1000 97.5 1250 95.0 1600 89.7 2500 86.9	COPERATIONS CAPPROACH POWER CB9 % RPM CAIRSPEED = 200						
	SPEED	O WER		METEOROLOGY TEMP REL H	OLOGY: TEMP = REL HUMIO =	59 F 70 %	A/C CODE: 071 OPS CODE: 105 PROFILE VER: A
A NC E		= 200 KNOTS	S	DELTA N =	0.0 08		PAGE I3
	ALTO	PNL	PNLT**		SEL	SELT**	EPNL **
	(DBA)	(PN08)	(PN08)		(08)		(EPNDB)
	114.1	126.2	126.8		110.9		115.4
	112.0	123.9	124.6		109.8		114.2
	109.8	121.6	122.3		108.6		112.9
	107.6	119.3	120.0		107.4		111.6
	105.3	116.9	117.5		106.1		110.1
	103.0	114.3	115.0		104.8		108.6
	100.6	1111.7	112.4		103.5		107.0
	98.2	109.0	109.6		102.0		105.3
	95.7	106.1	106.7		100.5		103.3
	93.1	103.0	103.7		98.9		101.3
	**06	6.66	100.5		97.2	98.3	99.1
	87.6	8.96	97.5		95.4		97.1
	84.7	93.7	4.46		93.5		95.0
4000 81.0	81.5	90.5	91.0		91.5		95.6
5000	78.2	87.1	87.5		89.3		0.06
6300 74.4	74.7	83.6			86.9		67.3
6.07 0008	71.1	80.0	80.2		84.4		84.5
10000 67.2	67.2	76.3	76.3		81.7		81.5
12500 63.3	63.3	72.3	72.3		78.8		78.5
16000 59.1	59.1	68.0	68.0		75.6		75.2
	54.8	63.4	63.4		72.3	72.3	71.6
25000 50.2	50.2	58.4	58.4		68.7		67.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS! 6
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

DELTA N = 6.00 BH WHID = 70 X	250 (688	X RPM		2 H						. A+		•	
A	315 (TEMP	= 59 F	RE	L HUMID	7.0		•			A		*	
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	GROU	I-ON	GROUND-TO-GROUND	ONNO	٩	ROPAGATION	TION														OMEG	d	9.9	
AIRCRAFT	F-101	-				OPER	PPRO 89	APPROACH 8	P 0 F	α			2000	·	TEOROLOGY TEMP REL H	HUMI	" "	59 5	# X		A/C COPS CPROFI	N E	ER 10	71 05
					-		AIRSPEE	EEO	= 20	0	KNOTS		-	ELTA	z	0.0	88			-	PAGE	2		!
SLANT DISTANGE (FEET)	11	18	61	50	21	22	23	24	52	FRE 26	QUE	NCY B	AND 29	3.6 3.6	31	32	8	*	35	36	37	38	39	9
200	79	78	76	89	47	100	95		100	45	100	100		98	86	86	47	45	96	76		86	86	90
250	11	92	2.2	87	95	86	93		86	95	98	96		96	96	96	95	95	76	95		83	83	86
315	75	74	72	85	95	96	91		96	93	96	96		76	16	46	93	95	91	68		80	80	82
004	73	72	2	83	8	93	68		76	91	76	16		95	35	91	91	06	68	87		11	92	78
200	71	70	99	100	88	91	9 8		95	8 4	36	35	91	06	8 6	8 4	80 0	88	9 8	4 4	78	14	25	73
800	67	99	3 4	12	83	86	81	8 6	8 8	82	8 8	88	86	86	82	**	83	85	80	11	22	99	62	9
1000	69	49	62	7.4	80	83	78		86	83	86	85	48	83	82		81		77	14	19	61	26	52
1250	63	62	65	7.1	77	90	15	92	83	81	9 4	83	82	81	80	4	78	92	74	7.0	63	99	64	43
1600	61	58	99	29	74	16	7.1		62	62	81	81	62	7.8	77		25		20	65	25	64	41	31
2000	28	55	55	63	7.0	72	29		92	16	19	7.8	11	92	14		72		69	66	52	45	31	17
2500	24	51	48	66	65	68	63		72	73	92	92	14	73	11		68		09	53	45	32	18	0
3150	20	147	43	24	61	63	29		19	89	73	73	7.1	7.0	68		19		22	94	36	22	m	
0000	46	47	38	64	52	25	52		29	49	69	7.0	68	99	19		53		48	37	56	•		
2000	41	37	33	11	20	55	47		96	58	65	99	69	63	09		24		0+	27	14			
6300	36	32	28	39	45	48	42		20	53	61	61	9	66	99		14		30	14				
8000	34	30	56	37	43	45	4.0		14	20	25	25	26	24	51		0 4		19					
10000	31	28	54	35	41	43	37		*	94	24	53		64	45		31	21	'n					
12500	53	56	22	32	38	9	34	35	41	43	20	64	14	43	37	30	21							
16000	27	23	19	30	36	37	31		38	39	45	11		36	53		00							
20003	52	21	17	27	33	34	28		34	34	40	38		27	19	1								
00000	-																							

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6 ** BAND WHICH DETERMINES THE TONE CORRECTION (C).

GROUND-1	GROUND-TO-GROUND P	ROPAGA	TION				OMEGA 6.6
AIRCRAFT: F-101		OPERATIONS	RATION: APPROACH POWER 89 % RPM AIRSPEED = 200 KNOTS	SE .	METEOROLOGY: TEMP = 5 REL HUMIO = 7 DELTA N = 0.0 DB	59 F 70 X 1	A/C CODE: 071 OPS CODE: 105 PROFILE VER: A 20 JAN 76 PAGE M3
SLANT DISTANCE (FEET)	AL (08A)	ALT** (08A)	PNL (PNOB)	PNLT**	SEL (08)	SELT**	EPNL**
200	108.4	109.1	121.2	121.8	105.9	07.	410.4
250	106.3	106.9	-	119.5	. 40	05.	109.2
315	104.1	104.7	116.6	117.3	103.6	. 40	107.9
904	101.9	102.5	114.3	114.9	2	03.	106.5
200		100.2	111.8	112.4	101.1	102.2	105.1
630	97.3	97.9	109.5	109.9	6	90	103.5
900	6.46	95.5	106.5	107.2			101.8
1000	92.5	93.1	0.3	.40		98.0	
1250	89.9	90.5	0	101.2		96.4	
1600	87.2	87.8	~	97.9		2.46	
2000	84.4	85.0	3	4.46		93.0	
2500	81.4	82.1	0	6.06		91.0	
3150	78.2	78.8	86.3	86.9	87.7	88.7	87.5
4000	74.5	75.0	~	82.5		85.8	
5000	70.4	70.8	~	77.6		82.5	
6300	62.9	66.2	N	72.4		78.8	
8330	61.7	61.9	~	6.79		5.52	
10000	57.2	57.2	63.2	8	+	+	68.5
12500	52.3	52.3	58.3		-	2	64.5
16000	6.94	6.94	52.7	52.7	3	3	6*65
20000	41.0	41.0	9.94	46.6	58.5	58.5	54.8
25000	76. 6	2772	2 A 2	~	~	2	48.1

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

TEMP = 59 F REL HUMID = 70 X NO. OF RECORDS; 6 IDENT: 6.6-071-105-200176-A IDENT: 6.6-071-105-200176-A A+ A	250 (F-101 89 AIRSP	Z "	APPRO-	APPROACH POWER 0 KNOTS				•		•			<u>a</u>	<u>a</u> *
NO. OF RECORDS: 6 106.07-105-200176-A 106.07-105-200176-A 107.07-105-200176-A 107.07-105-	315 (C TEMP	= 59 F	REL 0.0 08	HUMID	20		•	•	A •	•		×	•	•
X X X X X X X X X X X X X X X X X X X	004	I . NO. OI	F RECOR	171-105	-200176				NI I	A+	٠	•			
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* * * * * * * * * * * * * * * * * * *	800	•	N.					. A+	•		• ×				
* * * * * * * * * * * * * * * * * * *	1000				:	:	•	. A+.	•	× .	•	•	:	Y. V.	•
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680UND 7	8000		× .	*		•			•		•		•		
X X X X X X X X X X X X X X X X X X X	10000	× · · ·	•	•	•	:	•	•	•	•	:	•			•
	12500		×	MARKET I		•		10 mm				GROUNI P	" "	5 F 5	PNLT
	16000	×	•			•			•		•	+ <		ALT	<u> </u>
	20000			•	:	:	:		•	:	•	•	•		

AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATTERSON AFB OHIO F/G 1/2 COMMUNITY NOISE EXPOSURE RESULTING FROM AIRCRAFT OPERATIONS. VO--ETC(U) FEB 78 J D SPEAKMAN, R G POWELL, R A LEE AMRL-TR-73-110-VOL-4 AD-AUSS 702 UNCLASSIFIED 2 OF 7 AD A053702

250 (. 89 %	(TEMP = 59	C NO. OF E	200 (.:.	1000 (1250 (.:.						10000 (
PM = 200	F .	RECORDS: 6														• • • • • • •				E
KNOTS	HUMID = 70	-200176-A		TERMEDING.	•	:	•			•			•	•	•	:		W	EX.	X
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· ST	. ST E	. ST E	ST .E	ST E	ST. E	T E	•	2 0			•					10000	= EPNL	= SEL		

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1	80	•	•		•	•	× .	•				•	M	.,,
SPEED SPEE	000								×			•	4	3
SPEED	25 (•		•	•	•	•		×		•	0	2
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30 MEAN VALUE OF NORMALIZED 1/3 OB SPL IN DB 80 90 101 INTERMEDIATE POWER 88 % RPM = 300 KNOTS TEMP = 59 F = 1000 FEET REL HUMID = 70 % ALT = 92.2 = 6 IDENT: 6.6-071-106-200176 AL = 91.5	00	•	•	•			· · · · ×	•				•	2	,
30 40 50 60 70 80 90 MEAN VALUE OF NORMALIZED 1/3 08 SPL IN DB 101 = 300 KNOTS TEMP = 59 F = 1000 FEET REL HUMID = 70 % ALT = 92.2 = 6 IDENT: 6.6-071-106-200176 AL = 91.5			•				•	•				•		
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101 INTERMEDIATE POWER 88 % RPM = 300 KNOTS TEMP = 59 F = 1000 FEET REL HUMID = 70 % ALT = 92.2 = 6 IDENT: 6.6-071-106-200176 AL = 91.5)						
= 300 KNOTS TEMP = 59 F = 1000 FEET REL HUMID = 70 % ALT = 92.2 = 6 IDENT: 6.6-071-106-200176 AL = 91.5			F-101		INTERM		WER	88						
• OF RECORDS = 6 IDENT: 6.6-071-106-200176 AL = 91.5	IRSF	EE0	" "	300	7.	TEMP REL H					PNLT		MA	8
				9		IDENT		-106-20	0176		ALT		N IO	

AI AIRCRAFT: F-															1000 1010					-				
•	AIR-TO-GROUND	-6R	OUND	PRO	PAGA	-														~ 1	OMEGA	9	9.	
	F-131		2.11.15	112		DPERATIONS INTERMEDIATE 88 % RPM	TERM	EDIA % RP		OWER			£	ETEOROLOGY TEMP REL H	TEMP REL	Y . HUMI	" "	59 F			A/C CODES	CODE	1 10 VER:	4 0 A
			A la			AI	IRSPEE	E0 =	300	KNOT	15		0.00	DELTA	11 Z	0.0	08				PAGE	Ŧ		:
•	,	- a	9	00		33		7.	2	FREG	QUENCY	BA	000	NUMBE	α. F	22	2	45	35	92	37	88	9	4
(FEET)		,			:	;	3			3				,	;		3	;		3		9.3	in a	
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1	2					95	87		06	96	91	91	91	91	91		91	06	96	80	2		80	8
7	2	72	69	80	98	06	82	85	88	88	68	69	68	89	88	90	68	88	88	82	62	92	*:	12
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	9 59		61	72	8 2	82	11	92	80	90	8.0	80	8.0	80	62	18	19	11	15	7.1	49	58	25	46
					9		15		8.2		78	78	11	11	92	92	92	73	72	29	6		2	35
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	* **	43			9	66	75	52	24	53	25	64	94	43	37	30	23	10						
			38	48	53	96	51	64	51	64	48	**	0 4	36	53	20	11							
	39 3				-	53	47	45	147	54	74	38	33	28	19	80								
					8	20	11	41	43	04	37	32	25	18	80									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6 ** BAND WHICH DETERMINES THE TONE CORRECTION (C).

AIR-10-6	AIR-TO-GROUND PROP	AGATION						OMEGA 6.6
AIRCRAFT: F-101		(OPERATIONS (INTERNEDIATE 88 % RPM	DIATE POWER RPM		METEOROLOGY : TEMP REL HU	HID =	59 F)	A/C CODE: 071 OPS CODE: 106 PROFILE VER: A
		(AIRSPEED	D = 340 KNOTS	115	DELTA N =	0.0 08		20 JAN 76 PAGE 14
SLANT DISTANCE (FEET)	AL (OBA)	AL T ** (08A)	PNL (PNOB)	PNL1**		SEL (08)	SELT** (08)	EPNL **
200	107.9	108.5	121.4	122.1		106.0	107.0	110.6
250	105.7	106.3	119.1	119.8		104.8	105.9	109.4
315	103.4	104.1	116.8	117.5		103.6	104.6	108.0
400	101.2	101.8	114.4	115.1		102.3	103.4	106.6
900	98.8	99.5	111.9	112.6		101.0	102.0	105.1
630	96.5	97.1	109.3	110.0		99.66	10001	103.5
800	0.46	2.46	106.5	107.2		98.1	99.2	101.8
1000	91.5	92.2	103.7	104.3		96.6	7.76	6.66
1250	88.9	99.6	100.7	101.3		95.0	96.1	6.76
1600	86.2	86.8	97.6	98.3		93.3	4.46	626
2000		84.0	94.4	95.1		91.5	92.5	93.7
2500	90.4	81.1	91.0	91.7		89.5	9006	91.3
3150	77.4	78.0	87.4	88.1		87.5	88.6	88.6
0004	74.2	74.7	83.6	84.1		85.3	86.2	85.6
2000	70.9	71.3	80.1	80.5		83.0	83.7	82.9
6300	67.4	67.7	16.5	76.7		9008	81.0	80.1
8000	63.8	0.49	72.7	72.8		78.0	78.2	77.1
10000	60.1	60.1	68.8	68.8		75.2	75.2	74.0
12506	56.1	56.1	64.5	64.5		72.2	72.2	70.7
16000	52.0	52.0	0.09	60.0		69.1	69.1	67.2
20000	47.6	47.6	929	92.6		65.8	65.8	63.7

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

A

250	315	004		200	630	800	1000	1250	1600	2000	2500	3150	0095	2000	6300	8000	10000	12500	16000	20000	25000
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RPM	59 F	ECO	-9	•			•			•				•			•			•	101
	3	RECORDS	071				:			:				:							
Z	2 02 0	5 ••	-10	•			•			•				•			•			•	
TERMEDIATE	REL HUMID	0 0	106-2					1		:											50
DIA	UMI		200176	•			•			•				•			•			•	
	= 0		-92				-0							:			•				
POWER	20		d	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	-E-X
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AIRCRAFT:	-	9-01	GROUND-TO-GROUND	a	PROPAGATION	AGATION					5									OMEGA 6.6	A 6.	9
	F-101				OPER	RATION: INTERME 88 % AIRSPEE	MEDI 7 R	DIATE RPM 0 = 30		HER		1	E E	COROLOGY TEMP REL HU	! . E :	# 01 80 0	202	L ×	1	AVC OPS PROF 20 J	CODE CODE ILE AN 7	# 10 VER:
SLANT DISTANCE 1	17 18	19	50	22	8	23	24	25	FRE 26	QUENCY 27 28	CY B 28	AND 29	NUMBE 30	31	32	33	*	35	36	37	3.8	39
200 7	6 75	72		89		8.8		91	91	92	92		65	65	92	63	65	26	91	85		23
			81	87	91	86	98	89	8	90	90	90	90	90	90	91	90	90	88	83	80	80
	72 71			85		94		87	87	88	88		88	88	88	89	88	88	96	8.0		11
				83		82		85	85	86	86		98	98	85	98	85	85	83	77		73
				81		80		83	83	84	84		84	83	83	84	83	83	80	14		69
				19		11		81	81	82	82		82	81	81	82	80	80	11	7.1		92
800 6				16		14		19	79	80	80		80	62	19	62	7.8	11	1.4	68		69
1600	61	12		1	764	77	7.1	11	11	7.8	11	77	11	77	76	11	75	74	7.0			24
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	55 52	48	25	63	69	61	61	67	202	7	7.0	7.0	20	69	68	29	65	62	57	8 4	39	28
				N	61	99	96	63	67	68	68	20	29	99	49	49	61	25	51			17
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25000				23	24			21	24	27	24	19	13	M								

o * EXTRAPOLATED FROM MEAN VALUES FUR LEVEL FLIGHTS. NUMBER OF RECORDS: < BAND WHICH DETERMINES THE TONE CORRECTION (C).

	GROUND-TO-GROUND P	ROPAGA				•	OMEGA 6.6
AIRCRAFT: F-101		(OPERATION: (INTERMEDIATE (88 % RPM	DIATE POWER RPM		METEOROLOGY: TEMP = 5 REL HUMIO = 7	59 F)	A/C CODE: U71 OPS CODE: 106 PROFILE VER: A
		(AIRSPEED	D = 300 KNOTS	15	DELTA N = 0.0 DB		20 JAN 76 PAGE M4
SLANT DISTANCE	P.	ALT**	PNL	PNLT**	138	SELT**	EPNL **
(FEET)	(084)	(084)	(PN 08)	(PNDB)	(80)	(80)	(EPNOB)
200	102.9	103.5	116.4	117.0	101.0	102.0	105.6
250	10001	101.3	114.1	114.7	8.66		104.3
315	98.4	99.1	111.8	112.4	98.6	9.66	103.0
200	93.8	96.5	106.8	107.5	5.10	90.3	101.0
636	91.5	92.1	104.2	104.8	9.46	95.6	7.86
890	89.0	89.6	101.4	105.0	93.1	94.1	9.96
1000	86.4	87.1	4.86	99.0	91.6	92.6	94.6
1250	83.8	84.4	95.2	95.8	89.9	90.9	95.4
1600	81.0	81.7	91.9	95.6	88.2	89.2	90.1
2000	78.1	78.8	88.5	89.1	86.3	87.3	87.7
2530		75.7	9.48	85.3	84.2	85.2	84.8
3150	71.7	72.3	4.08	81.1		85.8	81.6
0000	68.0	68.5	75.7	76.2	79.1	80.0	7.77
2000	63.9	64.3	70.6	:	•	16.6	73.4
6300	29.4	29.7	65.5	65.7	5	73.0	0.69
8000	55.2	55.3	6.0.9	•	6	69.5	65.2
10000	50.5	50.5	9.50	55.9	65.7	65.7	61.1
12500	45.5	45.5	2.05	2005	61.7	61.7	8.95
16000	40.1	40.1	44.5	44.5	57.2	57.2	51.7
20000	34.1	34.1	37.0	37.0	52,2	52.2	45.2

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

250 (.	315 (.	.) 004	.) 005	630 (.	800 (1000 (.	1250 (.	1600 (.	2000 (.	2500 (•	3150 (.	.) 0004	. 00005	6300 (.	9000	10000 (.	12500 (.	16000 C X	20000 6 .	25000 (
68 88 ATP 0	TEMP	NO. OF RE	•			:			:				:			:	*	×	:	
3 % RPM	= 59 F	F RECORDS:	:				•			•	•	•	:		*	· · · ·	×	0 × 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		5.0
	C 02	Si 6 1-106-200176		•	•	•	•	•	•	•	•	•	× · · · ·	A+	×	· · · · ×	A Transfer of			09
ATE POWER	10 = 70 %	176-A	•		•	:	•		•	•	*	A+.	×.	•	•	:	•	٠		7.0
						•			A+.	A +		×	•			•	•			0.8
						A+.	×	. A+		*	<u>a</u>						2			61
		• A •	× · ·	. A+	A +	•	•	d. *	P	00		•	•		•			•	•	0.6
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F-101 F-101													≻ 0	F-101 F-101
						PAGE	104-109 110-115 116-121 122-127		CE		ы		4 0 H 0 H	
AIRCRAFT AIRCRAFT		ву		SNO				PROVIDED:	QUENCY CE FROM SOUR		SOUND LEVEL 250 FEET FROM SOURCE		B A B B C R	AIRCRAFT
F-101 F-101 F-101		PRODUCED ON THE GROUND BY	AIRCRAFT	JURING GROUND RUN-JP OPERATIONS	TEST 76-571-001 AIRCRAFT CODE: 571 PROFILE VERSION: A MPUTER PROGRAM OMEGA 8.2			THE FOLLOWING DATA ARE PROVIDED	NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY NORMALIZED SPL AT 250 FEET NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE	NOISE LEVEL		25 MAY 76	A I I A A A A A A A A A A A A A A A A A	F-101 F-101
AIRCRAFI AIRCRAFI		NOTSE PRODU	F-101	JURING GROU	TEST AIKCRA PROFIL COMPUTER		RPM		ALIZED DATA AS A FUNCTION OF LEVELS SPEAR A FUNCTION OF LEVELS AS A FUNCTION O	FERCEIVED NOISE LEVEL TONE-CORRECTED NOISE LEVEL A-WEIGHTED OVERALL SOUND LEVEL	ED, A-WEIGHTH A FUNCTION OF		E S S S S S S S S S S S S S S S S S S S	AIRCRAFT AIRCRAFT
F-101 F-101 F-161						POWER SETTING	53% RPM	FOR EACH POWER SETTING,	NORMALIZED DATA NORMALIZED S NOISE LEVELS AS	FERCEIVED NOISE LEVEL TONE-CORRECTED, PERCE A-WEIGHTED OVERALL SOI	TONE-CORRECTED, A-WEIGHTED OVERALL NOISE LEVELS AS A FUNCTION OF ANGLE AT		A C C C C C C C C C C C C C C C C C C C	F-161 F-101
AIRCRAFT AIRCRAFT													43	AIRCRAFT
F-101 F-101														F-101 F-101

SIO	A O	BAND 250	BAND 250 FEET												20-	MEGA EST 7	. 4	-001	
NOISE SOURCE/SUBJECT: F-101 AIRCRAFT ENG. J57-P-55 GROUND RUNUP	SUBJECT AIRCRAF 55 JP	=_		9	ERATION: IDLE, F- SINGLE ER	100 +0	53	X RPM			ETEOROLOGYS TEMP BAR PRESS REL HUMID ELTA N =	"""	59 F 9.92 1 7.0 7	FIX N H	TADENE	AIRCRAFT OPE-CATION PROFILE VE 25 MAY 76 PAGE C1	FT CC ION CC E VERS 76	CODE 57: CODE 01: RSION	71 1013 A
BAND CENTER FREQ (HZ)	0	10	20	30	3	5.0	09	ANGL 70 8		DEGREE 90 1	ES)	1	120	130	140	150	160 1	170	180
20	576	634	926	684		634	654	6.3	65	654	79	63	99	99	89	69	6.8	63	67
93	>19	634	S	684	63 <	634	65	249	65 <	9	924	>99	69	99	68	69	>19	614	99
99	>19	63	62	684	63	63	69	69	69	69	99	68	20	20	69	69	65	e0	65
100	29	90	99	68	69	2.0	72	72	20	7.0	7.1	73	92	92	47	73	69	584	63
125	29	99	29	9 9	99	65	69	21	69	68	7.1	72	73	13	72	20	634	574	624
200	2 2	6 4	7 69	7 9	8 6	200	2 6	70	22	2.2	12	2 2	52	73	0 =	269	584	200	60
250	65	99	69	67	29	29	70	69	202	202	72	14	75	73	20	29	294	524	594
315	68	7.1	202	89	69	69	20	69	7.0	71	14	22	92	92	7.1	69	244	514	584
400	69	7.0	7.1	72	71	7.0	73	72	73	73	52	92	11	92	72	99	51	>64	25
200	69	69	72	14	72	0.2	73	7.1	72	72	47	73	11	73	7.1	69	20	*84	55
630	68	7.1	20	69	69	29	29	29	29	69	7.1	72	71	72	69	65	84	*94	24
800	69	7.1	7.1	72	89	69	29	99	99	29	99	89	72	69	69	19	64	+24	51
1000	63	20	49	99	29	7.1	29	49	63	65	99	2.0	22	69	89	69	20	11	47
1250	29	99	99	7.1	20	78	89	49	95	49	65	89	73	99	69	49	51	45	47
1600	14	7.1	73	99	29	61	49	65	66	61	62	63	22	29	69	63	24	41	46
2000	25	15	14	7.0	72	61	69	63	49	61	65	62	69	99	63	62	84	41	45
2500	11	62	11	10	8.2	7.1	73	69	99	99	7.1	69	25	69	99	89	55	94	26
3150	14	92	72	75	7.1	20	29	69	6.3	99	69	99	72	29	69	63	20	43	46
4000	73	14	12	22	69	7.1	68	61	61	49	65	99	69	49	65	63	20	11	43
5000	7.1	20	20	29	69	63	69	61	0.9	62	49	65	69	49	49	63	20	43	45
6300	29	29	29	6.8	19	61	62	58	66	61	61	63	29	63	63	63	64	745	41
9008	69	40	69	9	62	60	09	96	96	58	0.9	61	49	61	09	66	94	39	38
10000	9	9	99	29	50	2	25	52	53	96	25	9	62	29	29	25	45	36	37

XXX = EXTRAPOLATED OR INTERPOLATED SPL

	AS A F	A FUNCTION OF		ANGLE A	AND DIS	DISTANCE	FROM S	SOURCE) OMEGA		71-001	
NOISE SO	SE SOURCE/SUBJECT: E-101 AIRCRAFT E-6. JS7-P-55 GROUND RUNUP	BJECT B IRCRAF 55	_ =		OPERATIONS IDLE, SINGLE	TION: DLE, F INGLE ST. F-	ATION: IDLE, F-101 SINGLE ENGINE, 53: EST. F-100 +0.208	53%	α E	2000	METEOROLOGY B TEMP BAR PRES REL HUMI	PRESS HUMID	= 59 = 29.92 = 70	9 F 2 IN HG 2 %	ی	PROPERTY PAGE	RUN 01 AIRCRAFT COPERATION COPROFILE VER 25 MAY 76 PAGE 01	SION	571 01013
DISTANCE	9	1.0	56	30	0,	50	0.9	7.0	ANGL		(DEGREES) 90 100	110	120	130	140	150	160	170	180
230	100.0	161.3	100.5	6.66	6.66	96.6	7.96	93.9	92.9	93.5	96.4	.96.3	100.3	1.96	4.46	93.6	1.61	73.7	80.1
250	97.8	99.1	98.2	97.7	97.3	94.3	94.5	91.7	2.06	91.2	94.2	94.0	98.1	4.46	92.1	91.3	77.4	71.3	23.
615	93.1	94.3	93.5	92.9	95.6	89.4	89.0	87.0	86.0	86.5	89.5	89.3	93.4	1.26	87.2	86.6	72.5	66.5	73.1
200	90.5	91.8	91.0	90.4	90.1	86.8	87.3	84.5	83.5	84.1	87.0	86.8	90.9	87.2	84.7	84.1	70.0	63.9	70.
630	87.9	89.2	84.4	87.8	87.5	84.3	2.49	81.9	80.9	81.3	84.4	84.2	88.3	84.6	82.1	81.4	67.3	61.0	67.
800	85.2	9.90	85.6	85.0	84.8	91.6	81.9	2.62	78.1	78.6	31.6	81.4	85.5	81.9	79.3	18.6	4.49	6.16	65.
1300	82.2	83.5	82.7	82.1	81.8	78.9	19.0	76.3	15.2	15.6	78.7	78.5	82.6	79.0	76.3	75.6	61.2	54.6	62.1
1250	79.0	83.4	79.5	78.9	7.87	76.0	6.61	73.2	72.3	72.5	75.6	75.4	79.5	76.1	73.1	72.4	57.6	50.8	58.
1500	75.6	77.0	76.1	75.5	75.3	72.9	72.5	69.8	69.3	4.69	72.2	72.4	76.1	73.1	20.07	0.69	53.8	46.5	54.9
2000	71.8	73.2	72.4	71.8	71.6	69.5	6.80	66.1	60.1	66.2	68.8	69.2	72.5	6.69	2.99	65.2	2.64	41.8	50.8
2500	67.7	69.1	68.3	9.19	67.5	6.59	9.49	61.9	62.1	62.2	8 . 49	65.2	68.5	6.59	62.7	6.09	43.7	35.6	45.7
3150	63.0	64.5	63.7	63.0	65.9	62.0	0.09	57.4	57.0	58.1	9.09	60.7	64.3	61.5	58.5	56.0	36.8	28.1	39.
0004	50.6	59.3	58.4	57.7	57.7	51.5	24.7	52.4	52.7	53.1	55.8	55.7	59.8	50.95	53.4	50.3	28.6	17.9	32.
5300	52.2	53.1	52.3	51.6	51.5	52.6	49.2	46.8	45.4	47.8	50.5	50.1	54.7	50.8	47.5	43.2	15.9	7.8	22.
6300	45.9	40.0	45.0	45.4	44.1	47.2	43.1	40.5	41.0	41.6	44.5	44.0	49.2	44.8	41.2	36.4	3.1		9.6
8000	36.3	39.3	39.0	39.9	38.4	41.1	37.9	35.4	35.9	36.4	39.4	38.7	0.44	39.7	35.9	30.3			
10001	30.9	32.6	33.4	33.	31.8	34.0	30.8	29.0	29.9	30.3	33.4	33.3	38.4	33.9	29.8	21.3			
12500	23.7	23.4	25.1		23.7	25.3	54.9	25.2	23.6	24.0	27.5	27.4	32.5	28.1	21.4	10.1			
16000	8.1	11.3	16.2	18.	12.5	9.0	15.0	12.6	14.1	14.3	19.6	17.6	25.3	18.4	12.3				
20000			7.4	7.	1.3		6.2	3.0	4.6	4.6	8.1	7.8	15.1	8.6	3.2				
25000													0						

100	4	FUNCTION	9	ANGLE A	AND DISTANCE	STANCE	FROM S	SOURCE) OMEGA		1-001	
	SE SOURCE/SUBJECT: F-101 AIRCRAFT ENG. JS7-P-SS GROUND RUNUP	IRCRAF 155	_=		OPER	OPERATION: IDLE, F SINGLE EST, F-	ATION: IDLE, F-101 SINGLE ENGINE, 53% EST, F-100 +0.208		RPH		METEOROLOGY & TEMP BAR PRES REL HUMI DELTA N =	PRESS HUMID	= 59.92 = 29.92 = 70	9 F 2 IN HG	g	PROFES	AIRCRAIT CODE OPERATION CODE PROFILE VERSION 25 MAY 76 PAGE E1	CODE CODE ERSION	571 01013
DISTANCE (FEET)	•	13	20	30	9	50	0,	7.0	ANGLE		(DEGREES) 90 100	110	120	130	140	150	160	170	180
200	101.0	162.5	102.0	101.4	101.6	100.7	98.5	1.56	94.0	9.46	97.5	7.76	101.7	97.3	95.1	95.7	80.7	6.42	83.3
250	98.6	100.3	1.66		99.3	98.4	96.3	93.4	91.8	92.3	95.3	95.4	99.5	95.1	95.8	93.4	78.4	72.6	81.1
315	96.5	97.9	97.4	96	97.0	96.0	0.46	91.1	89.4	0.06	93.0	93.1	97.2	95.8	4.06	91.1	16.0	70.2	78.
4.30	94.1	95.5	95.0	94.	9.46	93.5	91.5	88.7	87.1	87.6	90.6	2.06	94.8	90.6	87.9	88.6	73.5	67.7	76.
200	91.5	93.0	95.5	91.	92.1	6.06	89.1	86.2	84.6	85.1	88.1	88.2	92.3	87.9	85.4	86.1	71.0	65.1	73.
630	88.9	4.06	89.9		89.5	98.4	86.5	83.6	610	82.4	85.5	92.6	89.7	85.3	85.8	83.5	68.3	62.3	71.
9 00	96.2	1.18	07.1	86.5	86.8	85.7	83.7	6.09	19.5	19.7	82.7	85.8	86.9	85.5	80.0	90.0	4 . 69	2.65	68.
1000	83.2	84.7	84. 2	A 2	8 2 0		8.08	78.0	76.2	76.7	70.8	79.0	94.0	70.6	77.0	77.7	62.2	86.0	66.
1250	10.0	81.6	81.0	200	80.7		77.7	74.0	73.4	73.6	76.7	76.8	8	76.7	73.8	74.5	58.6	52.1	62
16.00	76.6	78.2	77.6		77.4	77.0	74.3	71.5	70.7	70.5	73.3	73.7	77.6	73.7	70.7	71.0	54.8	47.7	58.2
2000	72.8	74.4	73.9	73.	73.7		70.6	67.8	67.2	67.3	6.60	70.6	73.9	70.6	67.5	67.2	50.5	43.0	54.
2500	68.7	70.3	69.8	69	9.69		999	63.6	63.2	63.4	55.9	9.99	6.69	9.99	63.4	65.9	44.7	36.9	48.
3150	04.6	65.7	65.2	64.	65.0		61.8	59.1	58.7	59.5	61.7	62.1	65.7	62.2	58.9	58.0	37.8	29.3	42.
4000	58.8	60.5	59.7	58.	59.3		56.1	53.7	53.6	54.0	2.95	96.8	6.09	57.0	53.9	51.9	29.4	18.9	35.
5000	52.8	53.9	53.3	52.	52.7		50.3	47.9	48.1	48.5	51.1	50.9	55.5	51.2	48.0	44.4	16.5	8.6	24.
63.00	+0.3	46.5	46.2	45	6.44		43.8	41.2	41.4	42.0	45.0	44.6	1.64	45.1	41.5	37.2	3.5		10.
9300	38.5	39.6	39.9		38.8		38.3	35.7	36.2	36.6	39.6	39.0	44.3	39.9	36.1	30.8			
10000	30.9	32.6	33.4		31.8	34.	30.8	29.0	29.9	30.3	33.4	33.3	38.4	33.9	29.8	21.3			
12500	20.7	23.4	25.1	27.	23.7		24.9	25.2	23.6	24.0	27.5	27.4	32.5	28.1	21.4	10.1			
16000	8.1	11.3	16.2	18.	12.5	6	15.6	12.6	14.1	14.3	19.6	17.6	25.3	18.4	12.3				
20000			7.4	7.5	1.3		5.9	3.6	4.6	4.6	8.1	7.8	15.1	9.6	3.2				
25300													0 4						

NOISE SOURCE/SUBJECT:		1011780	AS A FUNCTION OF A	ANGLE A	AND DIS	DISTANCE	FROM SC	SOURCE								TEST	1	1-001	
GROUNI	F-101 AIR ENG. JS7-P-55 GROUND RUNUP	BJECT I IRCRAFT 55			OPER	OPERATION: IDLE, F SINGLE EST. F-	RATION: IDLE F-101 SINGLE ENGINE, EST. F-100 +0.2	1 INE, 53% +0.208	Æ Æ	2000	METEOROLOGY B TEMP BAR PRES REL HUMI	PRESS HUMID	= 59 = 29.92 = 70	N N N N N N N N N N N N N N N N N N N		PROFE	AIRCRAFT OPERATION PROFILE VEI 25 MAY 76 PAGE F1	CODE	971 01013
DISTANCE (FEET)	•	61	82	30	9	5.	9	2	ANGLE	:	(DEGREES) 90 10u	110	120	130	140	150	160	170	180
200	86.2	87.1	80.2	85.8	84.7	94.4	81.9	79.2	78.9	19.5	82.0	82.3	6.58	82.5	80.1	78.2	64.3	58.8	64.6
250	94.0	84.9	63.9	83.6	80.0	82.3	79.7	77.1	76.8	77.4	79.9	80.1	83.7	80.5	77.9	76.0	62.1	56.7	62.5
000+	79.3	80.2	79.3	78.9	77.9	77.8	75.2	72.7	72.5	73.0	75.5	75.7	79.3	76.1	73.5	71.4	57.5	52.2	58.1
930	16.9	77.8	76.9		75.5	75.5	72.9	4.02	70.5	7.07	73.2	73.5	77.0	73.9	71.2	0.69	55.2	6.64	55.9
630	14.4	75.3	74.4	74.0	73.1	73.2	70.5	68.1	6.79	68.4	70.9	71.1	14.6	71.6	68.8	9.99	52.7	47.6	53.5
9 00	71.8	75.6	71.8	71.3	10.5	70.8	68.3	65.7	9.59	66.0	58.2	68.8	72.2	69.3	4.99	64.1	50.1	45.1	51.1
1000	9.69	6.69	69.1	68.6	67.8	68.3	95.4	63.2	63.2	63.6	66.0	66.3	69.7	6.99	63.9	61.4	47.4	42.5	48.5
1250	999	67.0	66.3	1.59	6 ** 9	1.59	62.8	9.09	60.7	61.1	63.5	63.8	67.1	64.3	61.3	58.7	44.6	39.9	46.0
16.00	63.1	63.9	63.5	65.8	62.0	63.0	60.0	58.0	58.1	58.5	80.9		4.49	61.7	28.7	52.9	41.7	37.1	43.2
2000	6.65	9.09	60.2	2.65	58.8	60.1	57.1	55.5	55.5	55.8	58.1	58.4	61.7	29.0	6.59	55.9	38.6	34.2	40.3
25.00	20.5	57.1	50.9	26.4	55.4	57.1	53.9	52.1	55.4	52.7	55.0	55.3	58.5	55.8	55.9	8.64	35.2	31.0	37.0
3150	25.7	53.3	53.1	52.8	51.7	53.8	50.3	48.6	48.9	49.3	51.5	51.9	55.1	52.4	49.5	46.3	31.6	27.5	33.4
0004	48.7	49.3	7.64	0.64	47.7	50.3	+ · 9 +	44.8	45.0	45.6	47.6	48.1	51.3	48.5	45.7	45.6	27.7	23.6	29.5
2000	44.2	***	1 ***	1 ***	43.2	46.3	45.0	40.5	46.8	41.4	43.3	43.9	47.1	44.3	41.6	38.5	23.6	19.4	25.2
6300	39,3	40.0	47.0	40.5	38.5	42.0	37.5	36.0	36.3	36.9	38.8	39.5	42.7	39.8	37.2	34.0	19.1	15.0	20.7
8000	34.6	35.6	35.6	35.2	34.3	37.4	33.5	32.3	32.6	33.2	35.2	35.7	38.7	36.0	33.3	59.9	15.0	11.1	16.9
10000	29.6	30.9	31.1		29.9	32.3	29.4	28.2	28.7	29.5	31.3	31.6	34.5	31.9	29.1	25.4	10.6	7.1	13.0
12500	54.5	26.0	26.3		25.2	26.6	24.9	23.9	24.4	24.9	27.0	27.1	29.9	27.5	24.6	20.7	6.1	2.7	8.7
16000	19.0	20.7	21.1	22.0	20.2	20.5	20.1	19.1	19.8	20.1	22.3	22.3	25.0	22.7	19.7	15.5	1.5		4.1
20030	13.2	14.8	15.5	16.4	14.7	14.1	14.9	13.9	14.0	14.9	17.2	17.0	19.7	17.5	14.5	10.0			
25000	6.9	4.4	100		3.6	7.5	0	•	0						0				

SOURCE/SUBJECT: 10. 10. 10. 10. 10. 10. 10. 10	F-1101 ENGINE, 100 + 0.	ANGLE 80 80 0 80 0 77.9 7 77.9 7 77.9 7 77.9 7 77.9 7 77.9 7 77.9 7 77.9 7 77.9 7 77.9 7 77.9 7 77.9 7 7 75.7 7 7 75.7 7 7 75.7 7 7 75.7 7 7 75.8 7 7 7 7 8 6 9 0 0 6) METEOROLOGY:) METEOROLOGY:) BAR PRES) B	voi	29 F = 29.92 I = 70 X 2 08 12 08 13 83 83 85.1 81 86.9 79	F IN HG XX HG 130 140 83.3 80.8 801.1 78.6	1 0 0 0	78,821 .	DE 57.2 DE 01.1 10N 1.0 0 1.6	180 67.8 67.8 63.6
ISTANCE 10 10 20 37.2 86.8 250 85.0 86.1 85.5 85.0 84.5 315 82.7 83.2 85.0 84.5 316 82.7 83.2 85.0 84.5 500 77.9 79.0 78.4 77.9 77.6 630 77.9 79.0 78.4 77.9 77.6 630 77.8 73.8 73.4 72.7 72.5 1000 70.0 71.1 70.7 70.0 69.8 1250 67.2 68.2 67.8 67.2 67.0 1600 64.1 65.1 64.8 64.2 64.0 2500 67.5 54.5 54.7 54.5 67.6 3150 57.5 54.5 54.7 54.2 67.8 4010 49.5 50.2 50.4 50.1 49.3 5010 44.8 45.5 45.7 54.5 53.8 6310 34.8 35.8 35.9 36.4 34.7	6ü 83.7	ANGLE 80 80.4 77.9 7 75.7 75.7 73.6 7	· œ	968496		!			:	3.6
85.0 86.1 85.5 85.0 84.5 85.0 84.5 85.0 86.8 81.4 81.4 81.9 80.3 80.0 77.9 82.3 81.4 81.9 80.3 80.0 77.9 77.9 77.9 77.9 77.9 77.9 77.9 7	83.7	77.9 75.7 73.6 71.3		00240 <i>0</i>						3.6
85.0 86.1 85.5 85.0 84.5 82.7 82.3 81.4 81.4 81.5 82.7 82.3 81.4 81.5 82.7 82.3 80.1 81.4 81.3 81.4 81.5 82.7 82.3 80.1 75.4 77.6 75.4 77.6 75.4 77.6 75.4 77.6 75.4 77.6 67.2 64.0 64.1 65.1 64.8 64.2 64.0 64.2 64.0 64.3 54.8 51.2 51.2 51.4 51.1 61.9 57.5 51.2 51.7 51.1 64.3 51.8 51.2 51.4 51.8 51.8 51.8 51.8 51.8 51.8 51.8 51.8		77.9 75.7 73.6 71.3		~ ~ + ~ ~ ~				•		3.6
70.0 73.4 83.4 80.7 80.8 77.0 77.0 77.0 77.0 77.0 77.0	81.5	73.6 71.3 69.0		2 4 2 10						1.4
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75.4 76.5 76.0 75.4 75.1 72.8 73.8 73.4 72.7 72.5 70.0 71.1 70.7 70.0 69.8 67.2 68.2 67.8 67.2 67.0 64.1 65.1 64.8 64.2 64.0 60.9 61.8 61.7 61.1 80.9 57.7 54.3 58.3 57.8 57.5 53.7 54.5 54.7 54.2 54.0 49.5 50.2 50.4 50.1 49.3 44.8 45.5 45.7 45.6 44.4 39.7 40.5 40.6 40.8 39.3 34.6 35.8 35.9 36.4 34.7	7.4.7	0.69		2				. ~		9.5
72.8 73.8 73.4 72.7 72.5 72.5 70.0 71.1 70.7 70.0 69.8 67.2 68.2 64.0 64.2 64.0 60.9 61.8 61.7 61.1 60.9 53.7 53.8 53.5 53.8 53.8 53.8 53.8 53.8 53.8	72.3							_		9.9
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60.9 61.8 61.7 61.1 60.9 53.7 54.5 58.3 57.8 57.5 53.7 54.5 50.7 54.2 23.8 44.8 45.5 45.7 45.6 44.4 39.7 40.5 40.6 40.8 39.3 34.6 35.8 35.9 36.4 34.7 29.6 30.9 31.1 31.8 29.9	01.8	59.5	.6 51.9	ın						4.9
57.5 56.3 58.3 57.8 57.5 53.7 54.5 54.7 54.2 53.8 49.5 50.2 50.4 50.1 49.3 44.8 45.5 45.7 45.6 44.4 39.7 40.5 40.6 40.8 39.3 34.6 35.8 35.9 35.4 34.7 29.6 30.9 31.1 31.8 29.9	58.9	56.6		•				.0		3.5
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49.5 50.2 50.4 50.1 49.3 44.8 45.5 45.7 45.6 44.4 39.7 40.5 40.6 40.8 39.3 34.6 35.8 35.9 36.4 34.7 29.6 30.9 31.1 31.8 29.9	52.1	50.0		2						2.9
44.8 45.5 45.7 45.6 44.4 39.7 40.5 40.6 40.8 39.3 34.6 35.8 35.9 36.4 34.7 29.6 30.9 31.1 31.8 29.9	47.8	45.9		~						32.1
39.7 40.5 40.6 40.8 39.3 34.6 35.8 35.9 36.4 34.7 29.6 30.9 31.1 31.8 29.9	43.1	41.4		80				~		7:1
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26.0 26.3 27.1 25.2	54.9	24.4		-		S		6.1 2	2.7	8.7
19.0 20.7 21.1 22.0 20.2	20.1	19.8		2		2		1.5		4.1
14.8 15.5 16.4 14.7	4.1 14.9 13.9	14.6 14.9	.9 17.2		19.7 17	17.5 14.5	5 10.0			
6.9 8.4 9.4 10.2 8.6	9.5	9.0		~		6				

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-	NOISE FINE		SZ-F	AIR	CRA	- 14					PE	OPERATION: IDLE; SINGLE EST, F	SEE .	- H	ATION: IDLE, F-101 Single Engine, 53% EST, F-100 +0.208	W O	208	8	A H			£ 6	METEOROLOGY: TEMP BAR PRES: REL HUMI DELTA N =	DENDE TEMP BAR P REL H	0 4 H	00	"" " " "	= 59.92 = 70 = 70	920	T I X	9			ACREATI CODE 5 OPERATION CODE 0 PROFILE VERSION 25 MAY 76 PAGE J1	PERA PERA SE	ARCRAFT OPERATION PROFILE VE 25 MAY 76 PAGE J1	S A A	S 10	571 01013 N A
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TABLE: N	NORMALIZED 1/3 OCTAVE DISTANCE =	SOUND BAND 250 F	PRE	SSURE	SSURE LEVEL	9	8									DENTI OMEGA TEST	FICAT 8.2 76-57	ION:	
F-101 F-101 ENG. JS7 GROUND R	SOURCE/SUBJECT: 31 AIRCRAFT 357-P-55 JND RUNUP	=_		OPER SI ES	RATION NGINE INGLE ST. F-	RUNUP, E ENGINE,	1 1 2	101 02 RPM		AET B	EOROLOGY EMP AR PRESS EL HUMID	- " " "	29.92 70 70 2 08	E I X		RUN 02 AIRCRAFT CODE OPERATION CODE PROFILE VERSIO 25 MAY 76 PAGE C2	DE AFT TION LE VE V 76	Z	571 01021 A
BAND CENTER FREQ (HZ)	2	10	20	30	9	32	99	A O Z	GLE 80	OEGRE 90	ES)	3	120	130	140	150	160	170	180
20	634	*9	63	49	65	99	69	6.8	89	68	7.0	20	73	7.4	11	77	62	75	73
63	634	9	>49	>69	29	99	7.1	20	20	7.0	7.7	12	12	92	7.8	79	78	73	70
90	63	9	65	29	29	69	72	7.1	7.1	7.0	72	72	92	11	7.8	79	11	68	9
100	99	29	69	69	68	7.1	22	22	15	14	52	92	18	62	80	79	75	999	62
125	69	2.0	20	7.1	20	73	22	11	92	52	11	28	62	91	81	11	7.1	>49	614
160	11	73	73	72	73	14	78	62	18	62	80	80	80	82	81	92	68	62<	29
200	69	69	71	10	11	72	11	11	16	92	8 2	18	62	18	11	69	5		25
250	29	68	20	69	2	22	15	15	4.	15	92	92	11	77	15	9	62<	58	55
315	69	69	69	20	72	73	92	52	75	72	11	92	80	79	15	49	29	55	53
204	11	73	73	15	92	92	82	28	62	15	62	78	80	7.8	17	69	28	534	51
206	7.1	14	14	52	18	10	28	61	6.2	62	80	8.2	62	14	72	69	52	514	64
630	69	7.0	71	7.1	72	7.1	73	73	73	92	22	73	78	15	72	69	96	64	14
906	72	14	73	73	73	14	25	74	92	20	15	12	7.8	73	69	99	53	48	45
1000	15	14	73	7.1	2	73	69	20	72	7.1	7.1	73	11	7.1	68	49	53	94	43
1250	62	92	15	73	72	1.1	7.1	7.1	72	89	69	72	11	69	29	99	52	14	**
1600	75	7.5	7.0	68	29	69	29	99	99	29	29	69	25	69	99	61	53	94	43
2000	15	14	73	20	73	72	1,4	69	69	99	99	68	70	69	49	9	24	94	43
2506	61	83	83	90	81	81	80	75	73	29	7.1	29	29	19	63	29	55	48	t
3150	77	62	78	92	11	11	92	73	7.1	29	20	29	69	99	49	28	53	94	42
0000	82	83	91	28	78	81	75	11	11	14	81	92	81	92	7.1	63	29	52	20
2000		15	15	73	73	72	73	69	7.1	29	20	29	73	7.1	68	9	55	45	42
6330	73	92	14	73	73	72	7.1	69	69	99	99	68	69	29	99	9	51	*	40
9008	7.1	20	20	69	69	7.0	69	29	69	29	69	29	20	89	69	61	24	48	*
10,00	69	99	99	19	9	69	+9	49	49	29	99	49	29	99	63	28	20	*	39
	0		0	20	40	9	0	0	0		0	9 9	•	0	2	90			36

XXX = EXTRAPOLATED OR INTERPOLATED SPL

10 20 30 40 50 10 10 10 10 10 10 10 10 10 10 10 10 10	TABLES	PERCE	PERCEIVED NOISE	DISE L	OF ANGLE OF	PNDB)	NDB)	F 20.4	3061108) IDEN	DENTIFICATION OMEGA 8.2	IONE	
1135-11 162-9 1465-3 102-9 1403-5 1404-9 1403-9 162-2 1402-5 1401-4 1405-1 1402	10	URCE/SI	AIRCRAI		A STATE OF STATE OF	O PE	ST. F.			A T	20000	ETEDRO TEM BAR BELTA N	PRESS HUMIO	=29.	L H N		PROFERENCE PAGE	CRAFT CRAFT RATION FILE VE	A P O	571 01021
135.1 165.9 1u5.3 102.9 103.5 104.9 103.9 102.2 102.5 100.0 104.2 101.4 105.1 102.0 99.8 99.6 99.8 97.6 103.0 100.4 104.2 101.4 105.1 102.0 99.6 99.8 99.6 99.8 91.8 102.9 100.4 104.1 100.7 94.2 99.9 100.2 99.7 101.9 99.1 102.8 99.6 99.6 99.8 91.8 92.5 95.8 95.8 95.8 95.8 97.9 94.8 91.6 95.8 94.1 87.9 92.5 95.8 95.8 95.8 95.8 95.8 97.9 94.2 95.9 94.8 91.6 95.8 97.9 94.8 91.6 95.8 97.9 94.8 91.8 92.8 95.8 97.9 94.8 91.8 97.8 97.9 94.8 91.8 97.9 94.8 91.8 92.8 97.9 94.8 91.8 92.8 97.9 94.8 91.8 92.8 93.8 92.8 93.8 92.8 93.8 92.8 93.8 92.8 93.8 92.8 93.8 92.8 93.8 92.8 93.8 92.8 93.8 92.8 93.8 92.8 93.8 92.8 93.8 92.8 93.8 92.8 92.8 93.8 92.8 92.8 93.8 92.8 92.8 92.8 92.8 92.8 92.8 92.8 92	DISTANCE		10	20	36	9	50	9	0,2	ANGL	1	REES)	110	120	130	146	150	160	170	180
112.8 113.6 1103.4 100.6 101.3 102.6 111.7 99.9 100.2 97.7 1111.9 99.1 1102.8 99.6 96.6 90.3 84.9 100.4 114.1 1102.9 94.9 1102.8 96.9 94.0 91.6 91.0 91.0 91.0 91.0 91.0 91.0 91.0 91.0	200	135.1		105.3	102.9	103.5	104.9	•	162.2	102.	100.0	104.		105.1	102.	98.8	95.6	87.3	4.08	77.4
101.0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	250	132.8	103.6	103.0	~	101.3	102.6		99.9	100	7.16	101.		102.8	99.	96.4	90.3	84.9	78.0	75.0
95.2 95.9 95.8 93.3 94.0 95.0 94.5 92.4 92.6 90.2 94.5 91.6 95.3 92.1 88.9 82.7 77.2 89.3 85.1 79.9 77.2 89.3 93.1 94.7 91.4 92.2 91.8 89.6 87.4 91.5 88.8 89.5 86.3 76.9 77.4 89.4 91.4 91.3 87.9 87.4 91.5 88.8 89.5 86.3 87.4 91.5 88.8 89.5 86.3 76.9 71.4 89.4 91.4 91.3 87.4 87.4 91.5 88.8 89.5 86.3 87.4 91.5 88.8 89.5 86.3 87.4 91.5 88.8 89.5 86.3 87.4 91.5 88.8 89.5 86.3 87.4 91.5 88.2 76.9 71.4 88.5 81.2 81.2 81.2 81.2 81.2 81.2 81.2 81.7 79.2 81.9 81.1 77.2 71.4 81.2 81.2 81.2 81.2 81.7 77.2 72.8 77.1 77.1 77.1 77.1 77.1 77.1 77.1 77	*00	97.8	98.6	98.3		96.5	97.6		95.0	95	92.8	97.		97.9	96	91.6	85.4	6.62	72.9	70.0
92.3 93.2 93.1 9u.7 9u.4 92.2 91.8 89.6 89.8 87.4 91.5 88.8 92.5 89.3 86.1 79.9 74.4 89.4 9u.4 9u.4 9u.4 9u.7 9u.4 9u.7 9u.4 9u.7 9u.4 9u.7 9u.4 9u.7 9u.7 9u.4 9u.7 9u.4 9u.7 8v.9 8v.7 8v.0 8v.0 8v.0 8v.0 8v.0 8v.0 8v.0 8v.0	900	95.2	95.9	95.8		94.0	95.0		92.4	92.	90.2	94.	9	95.3	92	68.9	82.7	77.2	70.3	67.3
89.4 90.4 90.3 87.9 84.6 89.3 99.1 86.6 80.8 84.4 88.5 95.8 89.5 86.3 83.2 76.9 71.4 84.9 95.7 86.4 86.1 83.5 83.6 81.2 85.3 82.7 86.3 83.1 80.0 73.7 86.2 83.2 84.2 84.2 84.2 84.2 84.2 84.2 84.2 84	630	92.3	93.2	93.1		91.4	92.2		9.68	89.	87.4	91.	8	95.5	.68	86.1	19.9	74.4	4.19	64.4
86.5 87.4 67.4 84.9 85.7 86.4 86.1 83.5 83.6 81.2 85.3 82.7 86.3 83.1 80.0 73.7 68.2 83.2 84.2 84.2 84.2 84.2 84.2 84.2 84.2 83.0 80.4 80.2 78.1 81.7 79.2 82.9 79.6 76.5 70.3 64.7 79.8 80.8 80.8 80.7 78.3 79.1 79.2 79.1 75.9 75.2 75.5 70.3 64.7 76.0 77.0 77.0 77.0 77.0 77.0 77.0 77	8 30	4 .68	99.4	90.3		99.6	89.3		90.0	80.	84.4	88.	00	89.5	86.		6.92		4.49	61.3
83.2 84.2 84.2 84.7 82.5 83.2 83.0 80.4 80.2 78.1 81.7 79.2 82.9 79.5 76.5 76.7 79.1 77.9 75.7 79.1 77.9 75.7 79.1 77.9 75.7 79.1 77.9 75.7 79.1 77.9 75.7 79.1 77.9 75.7 79.1 77.9 75.7 79.1 77.9 75.7 79.1 77.9 75.7 79.1 77.9 75.7 79.1 77.9 75.7 79.1 77.9 75.7 79.1 77.9 75.7 79.1 77.9 75.7 79.1 77.9 75.7 77.0 76.5 77.0 76.5 77.0 76.5 77.1 77.9 75.7 77.9 75.7 72.5 77.0 76.9 60.7 77.0 77.0 77.0 77.0 77.0 77.0 77.0	1000	80.5	87.	47.4	80	85.7	86.4	86.1	83.5	83.6	81.2	85.3	82.7	86.3	83.1	80.0	73.7	68.2	61.1	57.7
79.8 80.4 80.7 78.3 79.1 79.8 79.6 77.0 76.5 75.1 77.9 75.7 79.1 75.9 73.2 66.9 60.7 76.0 77.0 77.0 77.0 77.0 77.0 77.0	1250	83.2				82.5	83.2	83.0	80.4	80.2	78.1	81.7	79.2	82.9	19.6	76.5	70.3	2.49	57.1	53.8
76.0 77.0 77.0 77.0 77.6 75.3 76.0 75.3 73.3 73.3 71.9 73.7 72.5 75.2 72.6 69.8 63.3 56.4 71.9 72.6 72.6 72.6 72.6 72.6 72.6 72.6 72.6	1600	79.8				79.1	19.8	9.62	77.0	76.5	75.1	77.9	75.7	79.1	15.9	73.2	6.99	60.7	52.7	49.2
71.9 72.8 72.8 70.4 71.2 71.9 71.7 69.8 68.5 70.1 68.8 71.3 68.6 65.7 59.1 51.3 67.3 68.6 65.7 59.1 51.3 67.3 68.6 65.7 59.1 51.3 67.3 68.6 67.1 64.0 61.0 54.5 45.5 65.6 67.2 67.1 64.0 61.0 54.5 45.5 65.6 67.1 64.0 61.0 54.5 45.5 65.0 62.0 61.3 62.0 61.3 62.0 61.0 57.8 61.0 57.9 61.0 57.9 61.0 57.8 61.0 57.8 61.0 57.9 61.0 57.8 61.0 5	2000	76.0				75.3	76.0	15.9	73.3	73.3	71.9	73.7	72.5	75.2	72.6	8.69	63.3	96.4	48.3	44.6
97.3 68.2 68.2 65.6 67.1 65.5 64.3 65.9 64.6 67.1 64.0 61.0 54.5 45.5 62.0 63.0 60.5 63.2 65.1 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 65.0 68.9 61.0 68.9 61.0 68.9 61.0 68.9 61.0 68.9 61.0 68.9 61.0 68.9 61.0 68.9 61.0 68.9 61.0 68.9 61.0 68.9 68.0 68.9 68.0 68.9 68.0 68.9 68.0 68.9 68.0 68.9 68.0 68.9 68.0 68.9 68.0 68.9 68.0 68.9 68.0 68.9 68.0 68	2500	71.9				71.2	71.9	71.7	2.69	8 • 69	68.5	70.1	68.8	71.3	68.6	2.59	59.1	51.3	43.0	38.9
62.0 63.0 60.5 61.3 62.0 61.8 60.9 61.0 59.8 61.4 60.0 62.5 59.2 56.0 48.9 38.9 55.2 57.0 57.0 57.0 57.0 57.0 57.0 57.0 57.0	3150	07.3				9.99	67.2	67.1	65.5	9.59	64.3	62.9	9.40	67.1	0.49	61.0	54.5	45.5	35.9	30.5
50.2 57.0 57.0 54.5 55.4 56.1 55.8 55.8 55.9 54.7 56.2 55.0 57.5 54.0 50.5 42.6 29.3 50.6 50.0 49.9 47.5 49.2 50.0 50.1 50.2 50.4 49.3 50.7 49.4 52.1 48.1 44.3 35.5 18.1 44.4 43.0 42.6 42.5 44.3 43.9 44.7 45.3 45.6 44.6 46.2 44.9 47.5 43.2 39.1 29.4 6.9 47.4 43.0 42.6 42.5 38.6 38.4 39.0 39.6 40.2 39.2 40.4 39.2 42.1 37.2 32.6 21.6 27.5 29.5 29.6 30.2 32.3 31.6 32.9 34.2 34.5 33.5 35.1 33.7 36.3 30.8 26.5 9.9 12.7 20.3 20.7 22.2 25.7 23.6 26.4 27.8 28.1 28.7 28.6 30.0 22.7 16.6 20.9 2.8 14.3 11.6 16.1 18.5 18.6 18.6 19.9 12.7 2.6 5 9.9 2.8 14.3 11.5 18.1 18.1 8.0 6.6 6.7 2.6	0004	62.6				61.3	62.0	61.8	6.09	61.0	59.8	61.4	60.0	65.5	29.5	26.0	48.9	38.9	26.7	19.3
50.6 50.0 49.9 47.5 49.2 50.0 50.0 50.2 50.4 49.3 50.7 49.4 52.1 48.1 44.3 35.5 44.4 43.0 42.6 42.5 44.3 43.9 44.7 45.3 45.6 44.6 46.2 44.9 47.5 43.2 39.1 29.4 37.1 36.7 36.6 36.5 38.6 38.4 39.0 39.6 40.2 39.2 40.4 39.2 42.1 37.2 32.6 21.6 27.5 29.5 29.5 23.2 32.3 31.6 32.9 34.2 34.5 33.5 35.1 33.7 36.3 30.8 26.5 9.9 12.7 20.3 20.7 22.2 25.7 23.6 26.4 27.8 28.0 27.1 28.7 26.6 30.0 22.7 16.6 8.1 8.4 10.2 14.3 11.6 16.1 18.5 18.6 18.4 20.3 16.6 19.9 12.7 6.8 2.8 7.1 7.1 8.0 6.6 6.7 2.6	5000	2005	57.	57.0		55.4	56.1	55.8	55.8	52.9	24.7	299	55.0	57.5	24.0	20.2	45.6	29.3	13.3	8.0
44.4 43.0 42.0 42.5 44.3 43.9 44.7 45.3 45.0 44.0 46.2 44.9 47.5 43.2 39.1 29.4 37.1 35.7 36.0 36.5 38.6 38.4 39.0 39.6 40.2 39.2 40.4 39.2 42.1 37.2 32.6 21.6 27.5 29.5 29.6 31.2 32.3 31.6 32.9 34.2 34.5 33.5 35.1 33.7 36.3 30.8 26.5 9.9 12.7 20.3 20.7 22.2 25.7 23.6 26.4 27.8 28.0 18.4 20.3 16.6 19.9 12.7 6.8 8.1 8.4 10.2 14.3 11.6 16.1 18.5 18.6 18.4 20.3 16.6 19.9 12.7 6.8 2.8 7.1 7.1 7.1 8.0 6.6 6.7 2.6	6300	20.6	50.	49.9		49.5	20.0	2000	50.5	20.4	49.3	2000	4.64	52.1	48.1	44.3	35.5	18.1		
37.1 36.7 36.6 36.5 38.6 38.4 39.0 39.6 40.2 39.2 40.4 39.2 42.1 37.2 32.6 21. 27.5 29.5 29.6 30.2 32.3 31.6 32.9 34.2 34.5 33.5 35.1 33.7 36.3 30.8 26.5 9. 12.7 20.3 20.7 22.2 25.7 23.6 26.4 27.8 28.0 27.1 28.7 26.6 30.0 22.7 16.6 8.1 8.4 10.2 14.3 11.6 16.1 18.5 18.6 18.4 20.3 16.6 19.9 12.7 6.8 2.8 7.1 7.1 7.1 8.0 6.6 6.7 2.6	9070	* * * *	*5	45.0	45.5	44.3	43.9		45.3	45.0	44.0	7.94		47.5	43.2	39.1	59.4	6.0		
27.5 29.5 29.6 30.2 32.3 31.6 32.9 34.2 34.5 33.5 35.1 33.7 36.3 30.8 26.5 9. 12.7 20.3 20.7 22.2 25.7 23.6 26.4 27.8 28.0 27.1 28.7 26.6 30.0 22.7 16.6 8.1 8.1 8.4 10.2 14.3 11.6 16.1 18.5 18.6 18.4 20.3 16.6 19.9 12.7 6.8 2.8 7.1 7.1 7.1 8.0 6.6 6.7 2.6	10000	37.1				38.6	38.4	39.0	39.62	40.2	39.2	+0.4	39.5	42.1	37.2	32.6	21.6			
12.7 20.3 20.7 22.2 25.7 23.6 26.4 27.8 28.3 27.1 28.7 26.6 30.0 22.7 8.1 8.1 8.4 10.2 14.3 11.6 16.1 18.5 18.6 18.4 20.3 16.6 19.9 12.7 2.6 5.8 7.1 7.1 7.1 8.0 6.5 6.7 2.6	12500	27.5				32.3	31.6	32.9	34.2	34.5	33.5	35.1	33.7	36.3	30.8	56.5	6.6			
8.1 8.4 10.2 14.3 11.6 16.1 18.5 18.6 18.4 20.3 16.6 19.9 12.7 2.6	160 00	12.7				25.7	23.6	26.4	27.8	28.0	27.1	28.7	56.6	30.0	22.7	16.6				
2.8 5.8 7.1 7.1 7.1 8.0 6.6 6.7 2.	20000		8.1			14.3	11.6	16.1	18.5	18.6	18.4	20.3	16.6	19.9	12.7	6.8				
	25000					2.8		5.8	7.1	7.1	7.1	8.0	9.9	6.7	5.6					

Fig. 10 Fig.			A FUNCTION	OF	ANGLE !	AND DIS	DISTANCE	FROM SC	SOURCE) OMEGA	A 8.2 76-571-001	1-001	
107.0 107.9 107.5 104.6 105.3 107.3 105.8 104.1 104.6 102.5 107.8 104.3 107.9 104.6 100.6 94.0 89.5 82.6 104.6 105.5 107.3 107.3 107.3 105.1 104.9 107.2 105.4 104.3 107.3 107.3 105.6 105.5 107.8 104.3 107.9 104.6 100.6 100.8 102.3 103.1 104.9 103.5 103.1 104.9 103.5 103.1 104.9 103.5 103.1 104.9 103.5 103.1 104.9 103.5 103.1 104.9 103.5 103.1 104.9 103.5 103.1 104.9 103.5 103.5 103.6 103.3 103.6 103	NOISE SOU	URCE/S JS7-P	UBJECT AIRCRAI UP				NTION:	RUNUP, ENGINE,	F-101 702 208	RP II		ETEORO TEM BAR REL ELTA N	PRESS HUMID	""""	FHX		PROFE		ODE ODE SION	71 1021 A
107.0 167.9 107.5 104.6 105.3 107.3 105.8 104.1 104.6 102.5 107.8 104.5 107.9 104.6 100.6 94.0 89.5 82.6 105.5 105.5 102.3 103.1 104.9 103.5 101.0 100.8 102.3 101.0 100.9 103.5 101.0 100.8 102.3 100.0 100.9 103.5 101.0 100.8 102.5 102.3 100.0 100.8 102.5 102.3 100.0 100.8 102.5 102.3 100.0 100.8 102.5 102.3 100.0 100.8 102.5 102.3 100.0 100.8 102.5 102.3 100.0 100.8 102.5 102.3 100.0 100.8 102.5 102.3 100.0 100.8 102.5 102.3 100.0 100.8 102.5 102.3 100.0 100.8 102.5 102.3 100.0 100.8 102.5 102.3 100.0 100.8 102.5 102.3 100.0 100.8 102.5 102.3 100.0 100.8 102.5 102.3 100.0 100.8 102.5 102.3 100.0 100.8 102.5 102.3 100.0 100.8 10.0 10.0	DISTANCE (FEET)		27	20	30	0+	5.0	60	7.0	ANGL		25ES)	110	120	130	140	150	160	170	180
102.2 113.1 102.9 101.0 100.8 102.5 101.2 99.4 99.9 97.8 103.0 99.6 103.2 99.9 95.9 95.9 97.1 101.7 97.4 95.7 101.8 102.9 101.0 95.4 99.4 99.9 97.1 101.7 97.4 93.4 86.7 82.1 72.5 99.0 95.0 95.0 95.0 95.0 95.0 95.0 95	250	107.0			104.	105.3						107.8		107.9	104.6	100.6	94.0	89.5	82.6	80.5
99.6 100.6 100.5 97.6 98.3 100.0 98.8 96.9 97.4 95.3 100.5 97.1 100.7 97.4 93.4 66.7 82.1 75.2 94.0 97.8 94.1 95.2 100.5 97.1 100.7 97.9 94.0 93.4 95.0 94.8 96.3 97.3 96.3 94.7 95.0 95.0 94.8 96.8 94.7 95.8 95.0 94.8 96.8 94.7 95.8 95.0 94.8 96.8 94.7 95.8 95.0 94.8 96.8 94.7 95.8 95.0 94.8 95.8 95.0 94.8 95.8 95.0 94.7 95.3 73.6 66.6 99.7 94.2 95.2 92.4 92.5 93.6 90.8 93.7 90.8 95.0 94.7 95.3 95.0 94.8 95.8 95.0 94.8 95.8 95.0 94.7 95.3 73.6 66.6 99.8 95.0 94.7 95.3 73.6 66.6 99.8 95.0 94.7 95.3 73.6 95.0 94.8 95.8 90.8 95.0 94.7 75.2 75.8 75.1 66.2 66.9 59.4 77.8 77.8 79.8 77.8 77.8 77.8 77.8 77.8	315	102.2	103.1		100	100.8						103.0		103.2	6.66	6.56	89.2	84.7	17.8	15.4
94.1 95.2 95.4 95.2 94.5 93.7 91.5 91.9 19.0 95.0 91.7 95.3 92.0 88.0 85.6 66.6 97.7 91.8 92.4 92.5 95.9 95.0 91.7 95.3 92.0 88.0 85.5 89.6 91.7 91.3 91.9 89.9 95.0 91.7 95.3 92.0 88.0 85.0 88.7 88.0 86.5 89.0 89.0 85.3 73.6 66.6 85.3 85.1 85.2 86.4 83.4 84.3 85.5 84.8 85.3 85.3 80.0 85.3 82.1 85.6 82.3 78.4 77.6 81.4 78.7 77.6 81.4 78.7 77.6 81.4 78.7 77.6 81.4 78.7 77.6 81.4 78.8 75.1 86.9 59.4 77.6 81.4 78.7 77.6 81.4 78.7 77.6 81.4 78.7 77.7 74.8 75.1 86.8 85.5 84.8 87.7 77.6 81.4 77.7 74.0 75.3 77.7 64.6 59.5 59.4 87.7 77.8 77.8 75.0 77.8 75.0 77.8 75.0 77.8 75.0 87.8 75.1 86.9 59.4 77.8 75.0 77.8 75.0 77.8 75.0 77.8 75.0 87.8 66.9 59.7 77.8 77.8 77.8 77.8 77.8 77.8 77.8 7	000	99.6	100.6		97.	98.0						100.5		1001.7	97.4	93.4	86.7	82.1	75.2	72.8
91.2 92.4 92.5 89.6 90.4 91.7 90.9 88.5 89.0 86.9 92.0 88.8 92.3 89.0 85.3 78.6 66.6 66.6 86.8 88.3 89.4 89.6 86.6 87.5 88.7 88.8 83.7 88.8 85.6 89.1 85.8 81.8 75.1 70.4 63.3 85.1 85.6 85.9 83.4 84.3 85.5 84.8 82.3 82.3 80.6 85.3 82.1 85.6 82.3 78.4 71.6 65.9 59.4 81.6 82.7 82.9 80.0 80.9 82.1 81.4 78.9 78.7 77.6 81.4 78.7 77.6 81.4 78.7 77.7 75.2 75.5 74.4 77.2 75.5 76.0 77.7 75.2 76.4 77.7 75.2 76.4 77.7 75.2 76.4 77.7 75.6 81.4 77.7 75.7 75.5 76.6 81.8 81.8 76.6 81.8 81.8 81.8 81.8 81.8 81.8 81.8 8	630	94.1			92.	93.2						95.0		95.3	92.0	88.0	81.2	76.6	69.7	67.2
88.3 89.4 89.6 86.6 87.5 88.7 88.0 85.5 85.8 83.7 88.8 85.6 89.1 85.6 82.3 78.4 71.6 65.9 59.4 85.1 86.2 86.4 83.4 84.3 85.5 84.8 82.3 82.1 85.6 82.1 85.6 82.3 78.4 71.6 66.9 59.4 81.6 82.7 82.9 80.0 80.9 82.1 81.4 78.9 78.7 77.6 81.4 78.7 81.8 78.6 75.1 66.2 62.9 55.0 77.8 77.2 77.8 79.2 75.2 76.3 77.2 77.6 81.4 77.2 77.7 77.2 77.9 77.1 77.1 77.1 77.1 77.1 77.1 77.1	800	91.2			68	90.4						95.0		92.3	89.0	85.3	78.3	73.6	9.99	64.1
85.1 86.2 86.4 83.4 84.3 85.5 84.8 82.3 82.3 80.6 85.3 82.1 85.6 82.3 78.4 71.6 66.9 59.4 81.6 82.7 82.9 80.0 80.9 82.1 81.4 78.9 78.7 77.6 81.4 78.7 81.8 76.5 75.1 66.2 62.9 55.0 77.8 79.1 79.2 76.3 77.2 77.2 77.2 77.2 77.2 77.2 77.2 77	1000	88.3	.68	89.6	86.	87.5		88.0	85.5	85.8	83.7	88.8	85.6	89.1	85.8	81.8	75.1	70.4	63.3	60.5
81.6 62.7 82.9 60.0 80.9 82.1 81.4 78.9 78.7 77.6 81.4 78.7 81.8 75.1 66.2 62.9 55.0 77.8 79.0 79.2 76.3 77.2 78.4 77.7 75.2 75.5 74.4 77.2 75.5 78.0 77.7 75.2 75.5 76.6 77.1 77.5 77.5 75.5 74.0 75.3 71.7 64.6 59.0 60.5 71.7 66.8 69.8 69.8 60.7 61.8 67.7 66.8 69.8 65.7 60.5 53.6 60.5 53.6 60.5 53.6 65.0 65.6 69.8 65.7 61.8 64.2 62.4 64.7 61.3 57.5 50.0 47.7 28.1 65.2 56.2 56.2 56.2 56.2 56.2 56.2 56.2	1250	85.1			83.	84.3		84.8	82.3	82.3	9009	85.3	82.1	85.6	82.3	78.4	71.6	6.99	59.4	56.6
77.8 79.0 79.2 76.3 77.2 78.4 77.7 75.2 75.5 74.4 77.2 75.5 78.0 75.3 71.7 64.6 58.7 50.6 77.8 79.0 79.2 76.3 77.2 78.4 77.2 75.5 74.4 77.2 75.5 78.0 75.3 71.7 64.6 59.7 50.6 73.7 74.0 71.3 67.6 60.5 53.6 45.3 73.1 73.1 74.2 73.0 74.2 73.6 71.6 71.9 71.0 73.7 74.0 71.7 74.0 71.3 67.6 60.5 53.6 45.3 63.6 63.9 67.4 67.7 61.8 64.2 62.4 64.7 61.3 57.5 50.0 47.7 28.6 53.5 64.5 64.7 61.9 62.8 63.9 63.3 62.5 62.7 61.8 64.2 62.4 64.7 61.3 57.5 50.0 40.7 28.6 57.2 58.2 58.3 56.7 59.2 55.6 51.6 43.4 30.7 28.6 51.3 51.3 51.8 48.2 49.9 50.9 57.7 51.0 51.2 50.3 52.2 50.6 53.2 49.2 49.2 49.0 40.7 28.6 51.8 48.2 49.9 50.9 50.7 7.3 74.6 77.0 45.1 47.0 45.4 48.1 43.7 39.5 29.7 7.3 37.1 35.7 35.5 33.6 33.6 33.6 33.8 33.8 53.9 34.2 34.2 34.2 34.2 34.2 33.3 33.3 33.3	1600	91.6			80.	80.9		81.4	6.82	78.7	17.6	81.4	78.7	81.8	78.5	75.1	68.2	65.9	95.0	52.0
73.7 74.8 75.0 72.1 73.0 74.2 73.6 71.6 71.9 73.7 71.7 74.0 71.3 67.6 60.5 53.6 45.3 69.1 70.2 70.4 67.5 68.4 69.6 68.9 67.4 67.7 66.8 69.5 67.6 69.8 66.7 62.9 55.8 47.7 38.1 69.5 64.5 64.7 64.7 62.9 55.8 47.7 38.1 69.2 70.4 67.5 68.4 69.5 67.4 67.7 66.8 69.5 67.6 69.8 66.7 62.9 55.8 47.7 38.1 65.2 58.2 58.2 58.2 58.2 56.4 64.7 64.7 64.7 64.7 64.7 64.7 64.7 6	2000	77.8			76.	77.2		17.7	75.2	15.5	14.4	17.2	15.5	18.0	75.3	711.7	9.49	28.7	50.0	47.4
63.5 64.5 64.4 67.5 68.4 63.6 68.9 67.4 67.7 66.8 69.5 67.6 69.8 66.7 62.9 55.8 47.7 38.1 63.5 64.5 64.7 61.9 55.8 47.7 38.1 63.5 64.5 64.7 61.9 62.8 63.9 67.4 67.7 61.8 64.2 62.4 64.7 61.9 57.5 50.0 40.7 28.6 63.5 64.7 61.9 55.5 51.0 40.7 28.6 51.3 58.2 58.2 58.2 58.2 58.2 58.2 59.2 57.5 51.0 47.7 28.6 51.3 51.3 51.4 51.8 44.6 47.1 51.0 51.2 51.3 51.2 51.3 51.4 43.1 42.8 44.6 44.4 45.1 45.7 46.0 45.1 47.0 45.4 48.1 43.7 39.5 29.7 7.3 37.1 30.7 36.5 38.6 38.4 39.0 39.6 40.2 39.2 40.4 39.2 42.1 37.2 32.6 21.6 27.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29	2500	73.7			72.	73.0		73.6	71.6	71.9	71.0	73.7	71.7	74.0	71.3	9.19	60.5	53.6	45.3	41.7
51.2 58.2 58.2 58.3 55.5 56.4 57.5 56.9 56.7 51.6 64.2 56.4 59.2 55.6 51.6 43.4 30.7 14.6 57.2 58.2 58.3 56.7 59.2 56.7 59.2 56.7 59.2 59.2 59.6 51.6 43.4 30.7 14.6 57.2 58.3 56.7 59.2 59.2 59.6 57.2 59.2 59.6 57.2 49.2 49.9 50.9 50.9 50.9 51.2 51.0 51.2 50.3 55.2 50.6 57.2 49.2 49.9 51.9 13.0 13.0 14.6 44.4 45.1 45.7 46.0 45.1 47.0 45.4 48.1 43.7 39.5 29.7 7.3 37.1 36.7 36.5 36.5 38.6 38.4 39.0 39.6 40.2 39.2 40.4 39.2 42.1 37.2 32.6 21.6 27.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29	3150	69.1			67.	68.4		68.9	4.29	67.7	66.8	69.2	9.29	69.8	2.99	65.9	55.8	47.7	38.1	33.3
57.2 58.2 58.5 58.5 58.4 57.5 58.9 57.2 58.2 58.5 58.6 53.2 59.5 51.6 43.4 30.7 14.6 51.3 51.3 51.6 43.4 30.7 14.6 51.3 51.3 51.6 6.3 51.6 43.4 30.7 14.6 51.3 51.3 51.4 51.4 51.4 51.4 51.4 51.4 51.2 51.3 52.2 51.6 53.2 49.2 45.0 36.0 19.0 .7 4.8 43.4 43.1 42.8 44.6 44.4 45.1 45.7 46.0 45.1 47.0 45.4 48.1 43.7 39.5 29.7 7.3 37.1 36.7 36.5 38.6 38.6 38.4 39.0 39.6 40.2 39.2 40.4 39.2 42.1 37.2 32.6 21.6 27.5 29.5 29.5 29.5 31.6 32.9 34.2 34.5 33.5 35.1 33.7 36.3 31.8 26.5 9.9 12.7 20.3 20.7 22.2 25.7 23.6 26.4 27.8 28.9 27.1 28.7 26.6 30.0 22.7 16.6 30.0 22.7 16.6 2.8 7.1 7.1 7.1 7.1 8.0 6.0 6.7 2.5	0004	200	•	0 40	01.	9.79		55.3	65.5	2.79	919	2.40	4.29	2.49	61.3	27.5	20.0	1.04	58.6	21.5
37.1 36.4 43.1 42.8 44.6 44.4 45.1 45.7 46.0 45.1 47.0 45.4 48.1 43.7 39.5 29.7 7.3 37.1 36.5 36.5 38.6 38.4 39.0 39.6 40.2 39.2 40.4 39.2 42.1 37.2 32.6 21.6 27.5 29.5 29.5 38.5 38.6 38.4 27.9 34.2 34.5 33.5 35.1 33.7 36.3 30.8 26.5 9.9 12.7 20.3 20.7 22.2 25.7 23.6 28.9 28.1 28.1 28.7 20.7 22.2 25.7 16.6 28.9 28.1 8.5 18.6 18.4 20.3 16.6 19.9 12.7 6.8 28.1 28.1 28.1 28.7 20.5 20.7 20.5 20.7 20.5 20.7 20.7 20.7 20.7 20.7 20.7 20.7 20.7	2000	2/00			20.	20.4		26.9	56.9	21.5	299	58.3	299	29.5	55.0	51.6	43.4	30.7	14.6	4.6
37-1 30-7 36-6 36-5 38-6 38-4 39-0 39-6 40-2 39-2 40-4 39-2 42-1 37-2 32-6 21-6 27-5 29-5 29-6 30-2 32-6 23-6 23-6 23-7 23-7 23-8 23-7 23-7 23-8 23-7 23-8 23-7 23-8 23-7 23-8 23-7 23-8 23-7 23-8 23-7 23-7 23-8 23-7 23-7 23-8 23-7 23-7 23-8 23-7 23-7 23-8 23-7 23-7 23-8 23-7 23-7 23-8 23-7 23-7 23-8 23-7 23-7 23-8 23-7 23-7 23-8 23-7 23-7 23-7 23-8 23-7 23-7 23-7 23-7 23-7 23-7 23-7 23-7	0000	51.5				4.3.4		2000	51.0	21.5	5000	2.70	50.0	53.5	49.5	45.0	36.0	19.0	•	
37.1 36.7 36.6 36.5 38.6 38.4 39.0 39.6 40.2 39.2 40.4 39.2 42.1 37.2 32.6 27.5 29.5 29.6 30.2 32.3 31.6 32.9 34.2 34.5 33.5 35.1 33.7 36.3 30.8 26.5 12.7 20.3 20.7 22.2 25.7 23.6 26.4 27.8 28.0 27.1 28.7 26.6 30.0 22.7 16.6 8.1 8.4 10.2 14.3 11.6 16.1 18.5 18.6 18.4 20.3 16.6 19.9 12.7 6.8 2.8 7.1 7.1 7.1 8.0 6.0 6.7 2.5				-	14.			1		•	1.64			1		23.5	6.30			
27.5 29.5 29.6 30.2 32.3 31.6 32.9 34.2 34.5 33.5 35.1 33.7 36.3 30.8 26.5 12.7 20.3 20.7 22.2 25.7 23.6 26.4 27.8 28.0 27.1 28.7 26.6 30.0 22.7 16.6 8.1 8.4 10.2 14.3 11.6 16.1 18.5 18.6 18.4 20.3 16.6 19.9 12.7 6.8 2.8 7.1 7.1 7.1 8.0 6.0 6.7 2.5	10000	37.1			36.	34.6		39.0	39.6	40.5	39.2	40.4	39.5	42.1	37.2	32.6	21.6			
12.7 20.3 20.7 22.2 25.7 23.6 26.4 27.8 28.9 27.1 28.7 26.6 30.0 22.7 8.1 8.1 8.4 10.2 14.3 11.6 16.1 18.5 18.6 18.4 20.3 16.6 19.9 12.7 2.6 5.8 7.1 7.1 7.1 8.0 6.0 6.7 2.5	12500	27.5			30.	32.3		32.9	34.2	3405	33.5	35.1	33.7	36.3	30.8	56.5	6.6			
8.1 8.4 10.2 14.3 11.6 16.1 18.5 18.6 18.4 20.3 16.6 19.9 12.7 2.8 7.1 7.1 7.1 8.0 6.0 6.7 2.5	16030	12.7			22.	25.7		56.4	27.8	28.0	27.1	28.7	56.6	30.0	22.7	16.6				
2.8 5.8 7.1 7.1 7.1 8.0 6.0 6.7 2.	20000		8.1	3.4	10.	14.3		16.1	18.5	18.6	18.4	20.3	16.6	19.9	12.7	6.8				
	25000					2.8		5.8	7.1	7.1	7.1	8.0	9.0	2.9	2.5					

NOISE SOURCE/SUBJECT: E-101 AIRCRAFT ENG. J57-P-55 GROUND RUNUP OISTANCE (FEET) D 10 200 91.0 91.0 9	1-5 1	20 00.9	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	RATIONS ENGINE S SINGLE EST. F-1				7						- RUN			
91.0			30 30 30 30 30 30 30 30 30 30 30 30 30 3	0.68		RUNUP, F-101 ENGINE, 70% F 100 +0.208	F-101 70% F 208	ж	2000	METEOROLOGY B TEMP BAR PRES REL HUMI DELTA N =	PRESS HUMIO	= 59 = 29.92 = 70	P H C		PROFILE PROFILE 25 MAY	AIRCRAFT OPERATION PROFILE VE 25 MAY 76 PAGE F2	200 88	E 571) E 01021)
91.6			86.5	69.0	50	09	0.2	ANGLE	111	(DEGREES) 90 100	110	120	130	140	150	160	170	180
88.8			86.3	96. 8	90.2	~	87.1	87.3	85.1	88.3	86.1	89.7	96.0	82.8	77.0	70.3	63.7	60.8
			44.0	000	88.0		6.48	85.1	82.9	86.0	83.9	87.5	63.8	90.08	74.8	68.1	61.5	58.7
86.4			,	84.5	85.6	~	82.7	85.8	86.7	83.7	81.7	85.3	81.5	78.4	72.6	62.6	59.3	56.5
94.0			81.5	82.1	83.3	6	80.4	80.2	78.5	81.4	19.4	83.0	79.2	76.1	70.3	63.6	57.1	54.2
		81.4	79.1	13.6	80.8		78.0	78.1	76.2	78.9	77.1	80.6	6.97	73.8	68.0	61.3	24.7	51.9
		78.8	16.5	77.1	78.2	-	9.51	15.7	73.8	76.4	74.7	78.2	24.5	71.4	9.59	58.8	52.3	49.5
76.2			73.8	74.4	15.5		73.1	73.3	71.4	73.9	72.3	15.8	72.0		63.1	56.3	8.64	47.0
		73.2	71.0	71.7	72.8		5.02	7.07	69.0	71.2	69.6	73.2	4.69	66.3	9.09	53.7	47.2	4.44
	70.1			68.8	69.8		6.79	68.1	6.99	68.5	67.2	9.02	66.9		58.0	6.05	44.5	41.7
	67.5		65.1	65.8	8.99		65.2	65.5	63.9	65.7	9.49	6.79	64.0	6.09	59.5	47.9	41.6	38.8
64.1	64.1	63.7		62.7	63.6		62.4	65.8	61.3	63.0	61.9	65.2	61.2	58.1	52.3	1.44	38.4	35.7
69.6	60.5		58.5	59.3	60.2	2.65	59.3	2.69	58.2	59.9	58.9	62.2	58.1	6.45	49.3	41.2	35.0	32.3
57.0				25.7	9.95		55.8	56.3	55.5	56.5	52.5	58.9	24.7	51.5	45.9	37.5	31.3	28.6
53.1				51.7	52.7		52.6	52.6	51.6	52.8	51.9	55.4	6.05	47.7	42.3	33.5	27.2	24.6
6.84		47.8		47.3	48.5		47.8	48.5	+1.2+	48.6	47.7	51.3	46.8	43.5	38.3	29.5	55.9	20.3
	43.7		42.1	42.7	43.9		43.4	44.1	43.1	44.2	43.4	47.0	42.3	39.1	33.9	54.6	18.3	15.7
8000 39.6 3	39.1	39.6	38.0	38.7	39.6		39.7	40.4	39.5	40.6	39.6	43.0	38.6	35.3	59.9	20.8	14.7	12.1
	34.3	33.9	33.5	34.5	35.0		35.7	36.3	35.6	36.6	35.4	38.7	34.5	31.3	25.5	16.9	10.9	8.4
28.6			28.8	30.0	30.1		31.4	31.9	31.3	32.3	31.0	34.0	30.0	26.9	20.8	13.0	7.1	4.5
55.5	23.6	23.6	23.7	25.1	24.8	55.9	26.6	27.0	26.6	27.5	26.1	28.9	25.2	22.3	16.0	9.1	3.2	9.
15.9			18.1	19.7	19.1		21.4	21.7	21.3	22.3	20.8	23.4	20.0	17.3	11.1	5.4		
			12.0	13.7	13.0		15.6	15.8	15.4	16.4	15.0	17.3	14.4	15.1	4.9	2.0		

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AS A	AS A FUNCTION OF	N OF A	ANGLE A	AND OIS	DISTANCE	AND DISTANCE FROM SOURCE	w								OMEGA	A 8.2	ONEGA 8.2 TEST 76-571-001	
NOISE SOU F-103 ENG. GROUP	OURCE/SUBJECT 01 157-P-55 UND RUNUP	SE SOURCE/SUBJECT: F-101 ENG. JS7-P-55 GROUND RUNUP	_		OPER	OPERATIONS ENGINE SINGLE EST. F-	E ENGINE, F-101 E ENGINE, 70% R	F-101 70% 208	AP.		METEOROLOGY B TEMP BAR PRES REL HUMI	00	= 59 = 29.92 = 70	9 F H H H H H H H H H	و	PROFE		CODE	DE 571) DE 01023) CON A)
DISTANCE	9	3	20	30	9	50	6.0	7.0	ANGLE 80		(DEGREES) 90 100	110	120	130	140	150	160	170	180
200	95.8		93.1	90.3	9.06	92.0	9.06	0.68	4.60	87.6	91.8	89.0	95.5	1.88	1.48	78.3	72.5	66.0	63.7
250	90.6		6.06	68.0	88.6	90.3	98.4	86.8	87.2	4.58	89.5	86.8	90.3	86.5	82.5	76.1	70.3	63.8	61.5
610	2000	86.5	86.1	83.3	83.9	85.0	83.4	87.3	20.0	83.2	84.9	82.3	85.7	81.9	78.0	71.7	65.8	59.3	57.6
500	83.3	8	83.6	80.8	81.4	63.1	81.4	29.9	80.3	78.7	82.5	80.0	83.4	79.6	75.7	69.3	63.5	57.0	54.7
634	80.7		81.0	78.2	78.9	90.08	78.9	77.5	77.9	76.3	80.0	17.6	81.0	17.1	73.2	67.0	61.0	24.6	52.3
9 .0	78.0		78.3	15.5	76.2	6.77	76.3	15.0	15.4	73.9	17.4	75.2	78.5	74.7	70.8	64.5	58.5	52.1	49.6
1330	75.2		75.4	72.7	73.5	75.1	13.6	72.5	6	71.5	74.8	72.7	76.0	72.1	68.2	62.0	55.9	49.5	47.2
1250	72.3	72.7	72.4	69.8	73.6	72.2	70.8	8.69	70.3	69.0	72.0	70.2	73.4	4.69	9.59	59.3	53.1	46.7	44.5
1500	69.1		69.3	9	67.6	69.1	6.70	67.1	9	4.99	59.3	67.5	7.07	1.99	62.8	9.95	50.1	43.8	41.6
2000	6.59		69.9	63.	64.5	66.0	6.49	64.3	5	63.8	66.5	6.49	68.0	63.9	60.09	53.7	6.94	40.7	38.5
2500	62.4		62.3	60	61.1	9.29	61.6	61.2	6	61.0	63.4	61.8	65.0	60.09	56.8	50.6	43.5	37.3	35.5
3150	58.8		59.5	56.	57.5	99.0	6.15	57.8	15	57.7	60.0	58.5	61.7	57.4	53.4	47.3	39.7	33.5	31.5
4000	54.5		54.0	52.	53.1	54.6	53.6	53.6	3	53.6	55.6	54.5	57.6	53.1	49.2	43.4	35.2	29.0	26.9
5000	50.6	*64	49.1		+8.4	6.64	48.9	69.0	0	48.9	50.7	49.5	53.0	48.4	44.6	39.1	30.5	24.2	21.9
6330	45.0	****	43.9		43.4	6.44	43.9	44.2	0	44.1	45.6	44.5	48.1	43.4	39.8	34.5	25.5	19.2	16.9
9996	39.9	39.5	39.0	38.3	39.1	40.1	39.6	40.1	89	0.04	41.3	40.1	43.6	39.1	35.7	30.1	21.3	15.1	12.7
10000	340.3	34.3	33.9	33.	34.5	35.0	35.1	35.7	36.3	35.6	36.6	35.4	38.7	34.5	31.3	25.5	16.9	10.9	8.4
12500	28.6		29.0	28.	34.0	30.1	30.7	31.4	31.9	31.3	32.3	31.0	34.0	30.0	26.9	20.8	13.0	7.1	4.5
16030	22.5		23.6	23.	25.1	24.8	25.9	26.6	27.0	26.6	27.5	26.1	28.9	25.2	22.3	16.0	9.1	3.2	9.
20000	15.9	17.6	17.8	18.1	19.7	19.1	20.0	21.4	21.7	21.3	22.3	20.8	23.4	20.0	17.3	11.1	5.4		
25030	9.6		11.4	12.	13.7	13.0	14.8	15.6	15.8	15.4	16.4	15.0	17.3	14.4	15.1	4.9	2.0		
										•									

NOISE SOURCE FE SOURCE FE SOURCE LIS GROUND LIS COUND LI	E/SUBJECT: AIRCRAFI 7-P-55 RUNUP						716-01
THE RESERVE OF THE PARTY OF THE			OPERATIONS EVGINE SINGLE EST. F	ATION: EVGINE RUNUP, F-101 SINGLE ENGINE, 70% RPH EST. F-100 +0.208	METEOROLOGY: TEMP BAR PRESS REL HUNIO	SS = 59 F SS =29.92 IN HG IO = 70 %) RUN 02 1 AIRCRAFT CODE 571 1 OPERATION CODE 01021 1 PROFILE VERSION A 1 25 HAY 76 1 PAGE J2
			P=PNLT		A=AL	T=ALT	
9 9 9 9 1 8 8 9							
30	•••		•		•	A.T.	
30		•		•		. A.T	
64			• • • • • • • • • • • • • • • • • • • •				• • • • • • • • • • • • • • • • • • • •
**	• •					A T.	۵
A 50			•		• • • • • • • • • • • • • • • • • • • •	• F 4	
						TA	
E 12						A 7	a.
08	•••				••	A T	••
06 N		. :				A. T	
E 100	•••		•		• •	4	•
8 110	• • •	. X3				A	۵
£ 120				•		. T A	
S 130						. A T .	••
140							
150						AT P	
160	•••				٠٠	• • • • • • • • • • • • • • • • • • •	
170	•••		•	• •	. A T	••	
180			•		.A.T	· · · · · · · · · · · · · · · · · · ·	
		2.0	2.0	0.7	200	00	

	DISTANCE =	= 250	L	_												TEST	76-571-	1-002	
NOISE SOURCE/SUBJE	RCE/SUBJE	120		COPE	RATIO		9	3		HET	E03	OLOGY:				AIRCR		B C	571
ENG. JS7-P-5 GROUND RUNUP	2 6			- 00	INGLE	SINGLE ENGINE, DEFLECTED FLOW	NE, 97	7% RPM		- 6 7	A A B		29.92	I	9	PROFILE V	w	RSION	A P
				E	ST. F	-100	0	8		_			.2 08		-	PAGE	2		
BAND CENTER								Ā	IGL E	3	E								
FREQ (HZ)	•	10	50	30	10	20	60	2	80	90		110	120	130	140	150	>160	>170	×180
20	62	78	81	8	83	82	83	85	96	85	88	91	95	100	103	104	46	9.0	94
63	81	83	82	83	*	9	85	87	88	96	89	+6	96	104	107	106	66	93	86
90	83	84	84	98	84	85	87	88	90	90	95	96	101	107	110	109	102	95	89
100	90	87	85	96	98	88	89	90	16	93	96	100	105	112	112	109	102	96	89
125	68	88	90	88	88	91	91	93	46	96	66	104	110	115	116	112	105	66	92
160	69	90	91	90	91	95	46	46	60	26	101	101	112	118	118	112	106	66	92
200	93	90	96	06	91	93	16	76	95	98	100	105	109	117	113	112	105	96	92
250	69	83	88	90	96	91	95	76	96	96	100	104	108	114	117	111	104	96	91
315	91	77	96	93	35	95	93	95	96	100	102	107	111	114	118	111	105	98	91
00+	16	93	93	95	93	95	96	26	100	102	104	109	113	115	115	109	102	95	89
200	90	89	68	93	95	93	46	96	26	100	103	107	110	112	113	104	46	90	84
630	69	89	83	95	91	95	46	96	66	100	102	106	109	111	113	104	46	90	84
800	88	47	89	95	91	93	95	96	86	101	103	106	110	109	110	66	95	98	79
1000	87	96	28	91	96	91	93	96	66	101	101	104	101	108	109	100	93	98	80
1250	82	92	85	96	83	68	92	76	26	100	100	103	105	104	106	46	96	83	77
1600	85	85	9.4	88	88	8 9	95	35	98	100	100	102	104	102	105	96	8 9	82	92
2000	80	98	28	88	88	88	95	95	66	100	66	101	103	101	103	96	89	82	16
2500	68	91	96	8 8	68	68	93	96	98	100	98	66	100	66	102	96	69	82	16
3150	85	96	98	96	96	87	91	93	95	98	26	96	96	96	66	93	98	80	73
9004	83	84	94	98	85	98	9.0	93	96	86	96	16	86	96	98	95	85	7.8	72
5000	91	83	83	84	83	85	06	91	6	96	96	26	66	96	96	68	83	92	69
6300	11	80	13	81	90	83	87	68	91	46	93	95	96	93	16	87	81	14	67
8000	16	18	11	62	73	82	85	8.8	91	93	46	46	5 6	91	93	85	7.8	72	69
10000	11	72	73	14	14	11	81	83	98	88	69	93	9.0	88	88	81	14	68	61
OVERALL	101	101	101	103	103	104	105	107	110	112	113	117	121	125	126	120	114	107	100

NOTE SOURCE/SULCETT NOTE SOUR	TABLES	PERCE	PERCEIVED NOISE LEVEL	DISE L		(PNUB)											DOENTI	IDENTIFICATIONS OMEGA 8.2	TIONS		
Figure F	-	A CA	TONOL		. :	TO ONE		FOX	מחת ב) IES	-92	11-005		
10 10 10 10 10 10 10 10	NOISE	RCE/S	UBJECT			OPER	TION				-	ETEORG	1 COGY :		•		AIR	CRAFT	CODE	571	
TREE NORTH NUMBER (EST. F-100 + 0.208) DELTA N = .2 0B) PAGE D1 STANCE (FEET)	ENG.	J57-P	41KLKA				SINGLE	ENGINE	97%	KPH KPH		BAR	SES	\$ =29.	Z	9	PRO	FILE	FRSION		
PSTRAUCE 11.4. 115-6 114.9 115-9 115-7 116-4 119-4 121.8 124-4 126-1 128-4 131.4 133.3 134-6 128-1 121-4 114-8 115-6 114-9 115-9 115-7 116-4 119-4 121-8 126-4 126-1 128-4 131-4 133.3 134-6 128-1 121-4 114-8 115-1 110-4 111-4 114-9 115-5 116-9 119-3 112-7 115-9 112-7 112-9 112-7 11		AD AUN	9				ST. F-	160 FL	N. 208			-	I H	.2 08) 25) PAG	MAY 76	.0		
112.2 113.4 115.6 114.9 115.7 115.4 119.4 121.8 124.4 126.4 126.1 128.4 131.4 133.3 134.6 128.1 121.4 114.5 112.7 113.5 112.7 113.5 112.7 113.5 112.7 113.5 112.7 113.5 112.7 113.5 112.7 113.5 113.4 112.7 113.5 113.4 114.9 114.9 114.9 114.9 117.5 119.9 121.6 121.6 121.9 127.1 129.0 1210.4 123.9 117.5 110.5 110.6 110.1 121.4 111.6 113.4 112.7 113.6 113.4 122.6 124.9 126.8 120.6 120.2 121.7 129.0 120.9 121.5 120.5 120.5 120.6 120.4 123.6 124.9 122.6 124.9 126.8 120.6 120.4 120.7 120.6 120.6 120.4 120.4 120.1 100.1 121.4 120.1 120.4 120.1 120.4 120.1 120.4 120.1 120.4 120.1 120.4 120.1 120.4 120.1 120.4 120.1 120.4 120.1 120.4 120.1 120.4 120.1 120.4 120.4 120.1 120.4	DISTANCE	9	3	20	30	0,	50		7.0	ANGL		100	110	120	130	140	150	>160	>170	>180	•
112.2 113.4 112.7 113.7 113.5 114.1 117.2 119.9 122.2 124.2 123.9 126.2 123.9 131.1 132.5 126.0 119.3 112.7 110.1 110.4 111.4 111.4 114.9 117.2 119.9 117.2 119.9 123.9 123.9 126.5 126.2 123.5 126.0 119.3 112.5 110.5 110.6 110.8	200	114.4			115.	115.7	116.	119.4	121.8	3		-	128.4		133.3		-	121.4		108.1	
110.6 111.1 110.4 111.4 111.2 111.9 114.9 117.2 119.9 121.6 123.9 127.1 129.0 130.4 123.9 117.2 110.5 110.5 110.8 110.1 110.4 111.1 110.4 111.2 111.9 114.9 117.5 119.9 121.6 124.9 126.6 124.5 122.7 115.0 1108.3 109.1 109.1 110.1 112.4 115.1 117.1 110.8 119.3 122.6 124.5 124.5 122.7 115.0 1108.3 100.2 100.1 110.1 112.4 115.1 117.1 116.8 119.3 122.6 124.5 124.5 122.7 115.0 1108.3 100.2 100.1 110.1 110.1 112.4 115.1 117.1 116.8 119.3 122.6 124.5 124.5 121.7 115.0 1108.3 100.1 100.1 101.1 100.4 101.1 10	250	112.2			113.	113.5		117.2	119.5	. ~		0	126.2		131.1	132.5		119.3		105.9	
107.6 100.8 100.1 100.9 100.5 112.6 114.9 117.6 119.6 119.3 122.6 6 126.8 128.2 121.7 115.1 110.1 110.5 110.	315	110.6			111.	111.2		114.9	117.2	m		9	123.9		129.0		6	117.2		103.8	
1105.2 1205.7 1205.7 1205.6 1205.4 1207.5 1205.4 117.1 115.8 119.3 122.6 124.5 125.9 119.5 112.8 1205.1 1205.7 1205.7 1205.7 1205.8 1205.1 120	904	107.6			109.	108.9		112.6	114.9	.0	119.6	m	121.6		126.8	N	_	115.0		101.5	
102.7 103.8 1u3.1 104.1 1u3.9 104.5 1u7.5 1u9.9 112.5 114.5 114.3 116.9 120.2 122.2 123.6 117.1 110.4 103.7 100.0 101.1 100.4 101.4 101.2 101.8 1u7.2 1u7.2 1u9.8 111.6 114.4 117.8 119.8 121.2 114.7 1 u00.0 101.2 100.0 101.2 101.8 107.2 1u9.8 111.6 115.2 117.3 118.6 112.2 115.7 1 u00.0 101.2 101.2 102.5 98.6 98.6 98.4 99.0 102.0 102.0 105.9 105.9 105.7 109.0 112.5 114.6 115.7 109.2 102.5 98.6 94.1 95.2 94.5 95.3 95.3 95.3 95.3 95.3 95.3 95.3 95	200	105.2			106.	100.4		110.1	112.4	-	117.1	8	119.3		124.5	æ	10	112.8		99.5	
100.0 101.1 100.4 101.4 101.2 101.8 107.2 109.8 111.8 111.6 114.4 117.8 119.8 121.2 114.7 108.0 101.2 100.0 100.0 101.2 100.0 100.0 100.0 101.2 117.3 118.6 112.2 117.3 118.6 112.2 105.5 98.6 94.1 95.2 94.5 95.3 95.3 95.3 95.3 95.3 95.3 95.3 95	630	102.7			104.	103.9		107.5		10	114.5	m	116.9		122.2	.0	-	110.4		6.96	
97.2 94.2 97.6 98.6 98.4 99.0 102.0 104.3 107.0 109.0 138.8 111.8 115.2 117.3 118.6 112.2 115.5 195.5 98.6 94.1 95.2 95.3 95.3 98.9 101.2 103.9 115.7 1109.1 115.7 1109.2 1105.1 99.5 95.8 94.1 95.2 94.5 95.5 95.5 95.6 97.0 910.6 102.6 1105.2 114.6 115.7 1106.1 99.3 95.6 97.0 910.6 102.6 1105.7 1106.1 111.8 112.7 1106.1 197.3 97.0 97.0 99.0 99.5 113.1 1106.7 1108.8 119.8 1103.1 96.2 99.5 93.5 113.8 112.7 1106.1 11	900	100.0	101.	100.4	101.	101.2	101.8	104.8		109.8	111.8	9	114.4	117.	119.8	N	_	108.0		94.46	
94.1 95.2 94.5 95.5 95.3 95.3 95.3 101.2 103.9 105.9 105.7 119.0 112.5 114.6 115.7 1109.2 102.5 102.6 90.8 91.8 91.8 91.8 92.9 92.8 91.8 91.8 91.8 91.8 92.8 92.8 91.8 91.8 91.8 91.8 92.8 92.8 92.8 92.8 92.8 92.8 92.8 92	1000	97.2		97.6	98.			102.0	. 401	107.0		138.8	111.8	115.2	117.3		112.2	105.5	98.6	91.7	
90.6 91.8 91.1 92.4 92.0 92.7 95.6 97.9 1u0.6 102.6 1u2.6 1u6.2 1u9.7 111.8 112.7 1u6.1 99.3 92.5 87.7 88.2 d7.6 89.3 88.6 89.5 91.9 94.3 97.u 99.0 99.5 1u3.1 1u6.7 1u0.8 1u9.8 1u3.1 96.2 89.4 87.7 88.2 d7.6 89.5 84.8 85.7 88.0 90.3 93.1 95.0 99.5 1u3.1 1u6.7 1u0.8 1u9.8 1u3.1 96.2 89.2 92.3 89.4 1u3.6 7u.2 d5.9 76.2 7u.2 7u.2 7u.2 7u.2 7u.2 7u.2 7u.2 7u	1250	94.1			95.		6.36	98.9	101.	•	105.9	105.7	109.0	112.5	114.6	~	109.2	102.5	95.6	88.7	
87.7 88.2 d7.6 89.3 88.6 89.5 31.9 94.3 97.4 99.0 99.5 103.1 106.7 108.8 109.8 103.1 96.2 89.4 83.9 83.6 89.5 85.6 89.8 85.7 88.8 85.7 89.3 103.0 106.0 90.2 92.3 85.4 83.9 84.2 85.5 84.8 85.7 89.8 103.0 106.8 106.0 94.9 94.9 86.1 87.8 106.0 97.3 97.4 91.7 94.1 106.1 107.8 107.8 94.9 88.1 87.1 87.8 107.8 107.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 9	1600	90.8			92.		92.7	92.6	97.	•	102.6	132.6	106.2	109.7	111.8	_	106.1	99.3	95.5	85.6	
base base <th< td=""><td>2000</td><td>87.7</td><td></td><td></td><td>89.</td><td></td><td>89.5</td><td>91.9</td><td>96</td><td></td><td>99.0</td><td>99.5</td><td>103.1</td><td>106.7</td><td>108.8</td><td>20</td><td>103.1</td><td>96.2</td><td>89.4</td><td>82.4</td><td></td></th<>	2000	87.7			89.		89.5	91.9	96		99.0	99.5	103.1	106.7	108.8	20	103.1	96.2	89.4	82.4	
79.6 79.7 79.1 81.3 80.7 81.4 83.0 86.0 48.9 90.4 91.6 95.1 93.8 100.8 101.8 94.9 88.0 81.1 74.8 74.2 77.9 77.8 79.4 10.7 77.8 79.4 10.7 77.8 77.8 77.8 77.8 77.8 77.8 77.8 7	2500	83.9		83.5	85.		85.7	88.0	90		95.0	95.7	99.3	103.0	105.0	0	89.5	92.3	85.4	78.5	
74.6 74.7 74.2 76.9 76.2 77.2 79.4 61.4 84.2 86.3 87.4 90.7 94.1 96.1 97.3 90.0 83.1 76.1 69.5 69.5 69.3 69.4 72.2 71.5 72.6 74.8 76.8 79.4 81.6 82.9 86.2 89.5 91.3 92.6 84.7 77.8 77.8 77.8 76.8 64.4 64.1 64.2 67.2 67.2 65.5 67.2 71.8 74.4 76.7 78.0 81.3 84.7 86.4 87.7 79.6 77.7 67.8 70.8 69.3 69.3 67.2 70.0 72.2 73.7 77.1 80.5 82.7 83.9 75.8 68.8 61.7 65.5 60.3 59.7 59.6 52.2 63.2 65.3 67.2 70.0 72.2 73.7 77.1 80.5 82.7 83.9 75.8 68.8 61.7 57.4 50.7 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8	3150	19.6			81.		81.4	83.0	86.		90.9	91.6	95.1	98.8	100.8	00	6.46	88.0	81.1	74.1	
69.5 69.3 69.4 72.2 71.5 72.6 74.8 76.8 79.4 81.6 82.9 86.2 89.5 91.3 92.6 84.7 77.8 77.8 77.8 77.8 64.4 64.1 64.2 67.2 67.2 67.5 69.8 71.8 74.4 76.7 78.0 84.3 84.7 86.4 87.7 79.6 72.7 65.6 60.3 59.7 59.9 62.9 62.2 63.2 65.3 67.2 70.0 72.2 73.7 77.1 80.5 82.7 83.9 75.8 68.8 61.7 56.8 55.6 55.7 54.9 55.0 58.4 57.4 57.2 70.0 72.2 73.7 77.1 80.5 82.7 83.9 75.8 68.8 61.7 57.4 57.4 57.4 57.6 58.4 57.4 57.4 57.4 57.4 57.4 57.4 57.4 57	4000	74.8		74.	76.		17.2	19.4	81.	2	86.3	87.4	30.7	94.1	96.1	2	90.0	83.1	76.1	69.5	
64.4 64.1 64.2 b7.2 b6.5 67.5 69.8 71.8 74.4 76.7 78.0 81.3 84.7 86.4 87.7 79.6 72.7 65.6 60.3 59.7 59.9 62.9 62.2 63.2 65.3 67.2 70.0 72.2 73.7 77.1 80.5 82.7 83.9 75.8 68.8 61.7 55.7 54.9 52.0 58.4 57.6 58.4 60.4 62.5 65.3 67.2 70.0 72.2 73.7 77.1 80.5 82.7 83.9 75.8 68.8 61.7 55.4 51.7 51.8 64.7 57.4 51.8 51.7 75.4 51.8 51.7 75.4 51.8 51.7 75.4 51.8 51.7 75.4 51.8 51.7 75.4 51.8 51.8 51.8 51.8 51.8 51.8 51.8 51.8	2000	69.5		69	72.		72.6	74.8	76.	+	81.6	82.9	86.2		91.3	.0	84.7	77.8	70.8	63.8	
60.3 59.7 59.9 62.9 62.2 63.2 65.3 67.2 70.0 72.2 73.7 77.1 80.5 62.7 83.9 75.8 68.8 61.7 55.7 54.9 55.0 58.4 60.4 62.5 65.3 67.3 69.1 72.7 76.4 78.7 79.7 71.8 64.7 57.4 56.8 51.0 49.9 53.6 52.8 53.5 55.0 57.4 60.2 62.1 64.4 68.2 71.9 74.5 75.4 67.7 60.5 52.9 44.0 43.4 48.0 47.1 48.0 49.5 51.8 54.4 56.7 59.2 63.1 67.1 69.8 70.7 63.3 55.8 48.0 38.7 38.0 37.5 41.6 40.4 41.2 42.9 45.5 48.1 50.8 53.5 57.5 61.6 64.6 65.6 58.4 50.7 42.2 31.1 30.0 29.5 33.5 32.3 33.5 35.6 38.1 40.5 43.6 46.8 51.3 55.9 59.2 60.0 52.9 44.6 355.2	6300	4.49		64.5	67.		67.5	69.8	71.	74.4		0	81.3	84.	86.4	~	9.62	72.7	65.6	58.4	
55.7 54.9 55.0 58.4 57.6 58.4 60.4 62.5 65.3 67.3 69.1 72.7 76.4 78.7 79.7 71.8 64.7 57.4 51.4 50.8 51.0 49.9 53.6 52.8 53.5 55.0 57.4 60.2 62.1 64.4 68.2 71.9 74.5 75.4 67.7 60.5 52.9 44.0 43.0 48.0 47.1 48.0 49.5 51.8 54.4 56.7 59.2 63.1 67.1 69.8 70.7 63.3 55.8 48.0 38.7 38.0 37.5 41.6 40.4 41.2 42.9 45.5 48.1 50.8 53.5 57.5 61.6 64.6 65.6 58.4 50.7 42.2 31.1 30.0 29.5 33.5 32.3 33.5 35.6 38.1 40.5 43.6 46.8 51.3 55.9 59.2 60.0 52.9 44.6 35.2	8000	60.3	59.	6	65.		63.5	65.3	67.	70.0		~	77.1	80.	82.7	•	15.8	68.8	61.7	54.3	
50.8 50.0 49.9 53.6 52.8 53.5 55.0 57.4 60.2 62.1 64.4 68.2 71.9 74.5 75.4 67.7 60.5 52.9 44.9 44.0 43.0 48.0 47.1 48.0 49.5 51.8 54.4 56.7 59.2 63.1 67.1 69.8 70.7 63.3 55.8 48.0 38.7 38.0 37.5 41.6 40.4 41.2 42.9 45.5 48.1 50.8 53.5 57.5 61.6 64.6 65.6 58.4 50.7 42.2 31.1 30.0 29.5 33.5 32.3 33.5 35.6 38.1 40.5 43.6 46.8 51.3 55.9 59.2 60.0 52.9 44.6 35.2	10000	55.7			58.	57.6		60.4	65.5	65.3	67.3	69.1	72.7	76.4	78.7	7.67	71.8	64.7	57.4	49.7	
44.9 44.0 43.8 48.0 47.1 48.0 49.5 51.8 54.4 56.7 59.2 63.1 67.1 69.8 70.7 63.3 55.8 48.0 38.7 38.0 37.5 41.6 40.4 41.2 42.9 45.5 48.1 50.8 53.5 57.5 61.6 64.6 65.6 58.4 50.7 42.2 31.1 30.0 29.5 33.5 32.3 32.3 33.5 35.6 38.1 40.5 43.6 46.8 51.3 55.9 59.2 60.0 52.9 44.6 35.2	12500	50.8			53.	52.8		55.0	57.4	60.5	62.1	9 . 49	68.2	71.9	74.5	75.4	67.7		52.9	44.8	
34.7 38.0 37.5 41.6 40.4 41.2 42.9 45.5 48.1 50.8 53.5 57.5 61.6 64.6 65.6 58.4 50.7 42.2 31.1 30.0 29.5 33.5 32.3 33.5 35.6 38.1 40.5 43.6 46.8 51.3 55.9 59.2 60.0 52.9 44.6 35.2	16000	44.9			48.	47.1		49.5	51.8	54.4	56.7	59.5	63.1	67.1	69.8	79.7	63.3		48.0	39.2	
31.1 30.0 29.5 33.5 32.3 33.5 35.6 38.1 40.5 43.6 46.8 51.3 55.9 59.2 60.0 52.9 44.6 35.2	20000	38.7			41.	40.4		45.9	45.5	48.1	50.8	53.5	57.5	61.6	9.49	9.69	58.4		42.2	33.3	
	25000	31.1	30.	29.5	33.	32.3		35.6	38.1	40.5	43.6	46.8	51.3	55.9	2.69	0.09	52.9		35.2	23.9	
	SPL DAIA	MCKE	CAIRA	EXIKAPULALED FUR		HTS A	ANGLE														

NOIS PI				ANGLE A	AND DIS	DISTANCE	FR04	SOURCE								TEST	16	-571-002	
	SOURCE/SUBJECT: 161 AIRGRAF 16. J57-P-55 OUND RUNUP	SUBJECT & AIRCRAF P-55 NUP	_ =		OPER	ERATION: MILITARY POWER, F SINGLE ENGINE, 93 DEFLECTED FLOM EST. F-100 +0.203	Y POWER, ENGINE, TED FLOW	ER, F-1 E, 97% DW 1, 208	F-101 97% RPM 38	2222	E EL	EDROLOGY: TEMP BAR PRESS REL HUMID	=29.	59 F 92 IN H 70 %	9	A AIR	RUN 01 AIRCRAFT (OPERATION (PROFILE VER 25 MAY 76 PAGE E1	CODE CODE RSION	571 01004
DISTANCE		61	26	30	9	5.0	9	3.	ANGLE	.0E	GREES)	110	120	130	140	150	>160	>170	×180
200	115.7	117.1	116.0	115.9	115.7	116.4	119.4	121.8	12%.4	126.4	126.7	128.4	131.4	133		128.1			108.1
315	1111.2	112.6		111	1111.2	111.9	114.9	117.2	0	121.9	122.2	123.9	127.1	129.	. +		N		103.8
99	108.9	110.2		109	100.9	109.5	112.6	114.9		119.6	119.8	121.6	124.9	126.	N :		0		101.5
930	103.9		104.5	106.0	103.9	107.1	110.1	112.4	0	117.1	117.4	119.3	3 122.6	124.5		· -	112.8	106.1	99.2
800	101.3		101.	101.4	101.2	101.8	134.8	107.2	20	111.8	112.1	114.4	117.8	119.	N	114.7	0	101.2	94.4
4000	30	2 00	7 90		4 90	000	4 22 0	101. 7	. 201		1 10 7	-	446 2	1 4 7	7 0 7	•	9 90 4	9	
1250	95.4		95.0	95.5	95.3	95.9	98.9	101.2	103.9	105.9	106.3		112.5	116	115.7		102.5	92.6	88.7
1500	92.1	93.3	92.2		2	92.7	92.6	97.9	100.6	102.6	103.2		109.7	111	112.7		99.3	92.5	85.6
2000	89.0		88.6	.68		89.6	91.9	94.3	97.0	0.66	1001		106.7	108.	109.8	_	96.2	89.4	82.4
2500	85.1		84.0	85.	+	45.7	88.0	90.3	93.1	95.0	96.3		103.0	105.	106.0	۸,	92.3	85.4	78.5
3150	80.9		80.5	81.	80.7	81.4	83.6	85.0	88.9	90.8	95.2		98.8	-	101.8	•	88.0	81.1	74.1
0004	15.8		75.1	76.	76.2	77.2	19.4	81.4	84.2	86.3	87.9		94.1	96.1	97.3	-	83.1	76.1	69.5
5000	70.3		70.0	72.	71.5	12.6	24.8	26.8	19.4	81.0	83.2		89.5		95.6		77.8	70.8	63.8
63.00	6 ** 9	Ī	9 ** 9	67.	66.5	07.5	69.4	71.8	74.4	76.7	78.3		84.7		87.7		72.7	9.69	58.4
8000	60.5	9.09	60.1	•	62.2	63.5	65.3	67.2	73.0	72.2	73.8		80.5		83.9	•	68.8	61.7	54.3
10100	55.7	6.45	55.0	58.	57.6	58.	9.09	62.5	65.3	67.3	69.1	72.7	75.4	78.7	7.67	71.8	64.7	57.4	49.7
12500	50.8	50.0	6.64	53.	52.8	53,	55.0	57.4	60.2	62.1	4.49	68.2	71.9	74.5	75.4	67.7	60.5	52.9	44.8
16000	6.44		43.8	48.0	47.1	48.0	49.5	51.8	54.4	56.7	59.5	63.1	67.1	69.8	70.7	63.3	55.8	48.0	39.5
20000	38.7	38.0	37.5	41.	4.04	410	42.9	45.5	48.1	50.8	53.5	57.5	61.6	64.5	9.69	58.4	50.7	42.2	33.3
36130																			

> SPL DATA MERE EXTRAPOLATED FOR THIS ANGLE.

NOISE SOURCE/SUBJECT: ENG. J57-P-55 GROUND RUNUP OISTANCE (FELT) 20 100.4 100.9 1 250 98.2 98.7 315 96.1 90.5 400 93.9 94.2 500 98.2 98.7 315 96.1 90.5 400 93.9 94.2 500 94.2 500 94.2 500 94.2 500 94.2 500 94.2 500 94.2 500 94.2 500 94.2 500 94.2 500 94.2 500 94.2 500 94.2 500 94.2 500 94.2 500 94.2 500 94.2 500 94.2	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100.67 100.67 100.60 996.2 996.2 997.7	0 PERATION: SINGLE SINGLE DEFLC EST. 6 600.1 100.8 97.9 98.6 997.7 96.4	1002 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ALILON: MILITARY POWER, F SINGLE ENGINE, 97 DEFLECTED FLOW EST, F-100 + 0.208 EST, F-100 + 0.208 100.9 105.7 168. 1 100.8 103.5 105. 98.6 101.3 103. 7 96.4 99.1 101. 8 94.1 96.4 99.	1 1 8 0 00 1 1 1 1 1	יש פריטטפיי	117.00 11	DELTA N = 100 113 115 115 115 115 115 115 115 115 115	1109-5 1	12.0 12.0 12.0 14.0 14.0 15.0	100 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16 121 0 1117.5	111 115 116 11 116 11 11 11 11 11 11 11 11 11 1	A MICRAFIC OPERATION 25 MAY 76 PAGE F1 50 > 160 ::	CODE CODE ERSION 170 96.7	0100 A A 180 94,000
ESTANCE 2		3.c 80.c 11.0 9.4 9.4					יום מדיים מיויי	96 96 112.9 116.7 108.5 103.9	1113.2 1113.2 1111.0 1108.9	110 1115 1115 1111 1009		130 120 116.	140 121 119 117	150 114.2 112.1 1110.1 107.9	>160 107.5 105.5 101.3 99.1	•	180 94.2 90.1 87.9
100.4 100.9 98.2 93.7 96.1 90.5 93.9 94.2 91.6 91.9 87.0 87.0 87.0 87.1		9.400.4					m . : 0 01 m in -	112.9 110.7 108.5 105.3 101.6	1113.2 1111.0 1108.9 1106.6	115. 1113. 109.		120. 118. 116.	121.	114.2 112.1 110.1 107.9	105.5 105.5 101.3 99.1	98.8	92.
98.2 98.1 96.1 91.6 91.6 91.9 87.0 87.0 87.0 87.0 87.0 87.0 87.1 87.1		000000000000000000000000000000000000000					- 10 01 m 10 -	110.7 108.5 106.3 103.9	1111.0 108.9 106.6	111.		116.	117.	112.1	105.5 103.4 101.3	96.7	92.
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88 87. 787. 79.05	84.2		91.2	91.8	+ 0			101.6	102.1							95.4	-
87. c 82.5 79.6	8 60.8		88.8	89.5	_					102	108.2	109.7	111.0	103.5	96.8	90.5	83.
84.5	84.3				,		_	99.1	2.66		105.9		108.7	101.2	64.5	81.9	81.
84.0	84.2													- Control			
82.0		87.0	86.4	87.0	2	91.8	94.6	9.96	97.3	100.4			106.	98.8	92.1	85.5	78.
19.4	91.7	84.4	83.8	84.5			95.0	94.0	8 . 46	97.9	-		103.	96.2	89.5	85.9	16.
	19.0	81.9	81.2	81.9			89.3	91.3	35.2	95.4				93.5	86.8	80.1	73.
7.97	76.2	79.5	78.5	79.2			86.4	88.5	89.6	95.8	96.1			2.06	84.0	77.3	70.
73.6	73.1	76.2	13.5	76.2	78.4		83.4	85.4	86.6	89.8	93.1	4.46	95.4	87.4	80.7	74.0	67.
70.2	1.69	12.9	72.2	73.0			80.1	82.1	83.4	86.6	89.8			83.8	77.1	70.4	63.
4300 66.4 65.8	62.9	69.3	68.6	4.69			16.4	78.5	19.8	83.0	86.2			19.8	73.1	66.5	59.6
5000 62.2 61.5	61.7	65.3	9.49	65.3			72.4	24.5	75.8	78.9	82.1		84.1	75.4	68.7	62.1	55.
6300 57.7 57.0	57.3	6.09	60.2	6.99			68.0	70.1	71.4	74.6	77.8			70.9	64.2	57.5	50.
	53.3	6.95	56.2	57.0			63.8	6.59	67.4	7.07	73.9	75.	76.0	67.2	9.09	53.9	47.2
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+ 3.	1.64	9.76	21.8	25.0		999	23.5	51.3	63.1	000	269		71.3	63.	200	20.0	*
45.1	44.5	48.0	47.1	47.9		51.8	54.3	56.4	58.3	61.7	65.1		67.0	2005	55.5	45.8	39.5
40.2	39.5	45.8	45.0	45.8	***	40.5	48.9	51.0	33.2	96.6	60.1	62.0	62.8	24.7	48.0	47.4	34.7
34.8	34.0	37.2	36.3	37.1		+0.7	43.1	45.2	47.4	51.0	54.6	56.	57.7	49.9	43.2	36.6	29.
25000 29.6 28.0	28.0	31.1	30.2	31.0		34.3	36.7	38.8	41.2	6.44	48.7		52.1	44.8	38.1	31.5	24.

. SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

	AS A TO	A FUNCTION OF		ANGLE A	AND DI	DISTANCE	FROM S	SOURCE) OMEGA 8.2) TEST 76-571-00	GA 8.2	71-002	
11 157 180 K	AI AI	NOISE SOURCE/SUBJECT! F-101 AIRCRAFT ENG. J57-P-55 GRUUND RUNUP	_	3000	OPER	OPERATIONS MILITAR SINGLE DEFLECT EST. F	ATION: MILITARY POWER, F-101 SINGLE ENGINE, 97% RPH DEFLECTED FLOW EST. F-101 +0.208	ER, F	101 RPM	2222	METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	P PRESS	= 59 5 = 29.92 0 = 70	L H X	9	PROFILE OF PROFILE OF PAGE	AIRCRAFT OPERATION PROFILE VE 25 MAY 76 PAGE G1	CODE	571 01004
DISTANCE (FEET)	•	10	20	30	3	50	9	7.0	ANGL	1	(DEGREES) 90 100	110	120	130	140	150	>160	>170	>180
101			101.5		102.2	102.9		108.						120.3	121.6	114.2	107.5	100.9	94.2
97	97.3	97.9	97.2	98.4	97.9	98.6			106.5	108.5				116.2	117.5	110.1	103.4	96.7	90.1
95		95.7	6.46		95.7	96.4		101						114.1	115.4	107.9	101.3	94.6	67.
92		93.4	92.6		93.5	94.1					104.9			111.9	113.2	105.8	99.1	92.4	85.8
88	88.2	9.88	87.9	93.4	8 9 8 8	89.5	92.0	94.3	97.1	99.1		102.7	105.9	107.4	108.7	101.2	94.5	87.9	81.2
9		,	2		, , ,														
0 60	83.3	93.5	82.8	94.4	8 4 6	9 6	86.9	89.2		0.06	95.4		101.2	102.6	100	96.0	89.5	82.0	76.9
8.0		80.7	80.1		81.2	81.9	84.2	86.5		91.3	92.8			100.1	101.2	93.5	86.8	80.1	73.5
70		6.11	77.3		78.5	79.2	81.4	83.7		48.5	90.1			97.5	98.5	90.7	84.0	77.3	7007
74		14.7	74.2		75.5	76.2	78.4	90.0		40.58	87.1	89.8		4.46	95.4	87.4	80.7	74.0	67.4
7.1		71.2	20.8	72.9	72.2	73.0	75.1	77.3		82.1	83.9	96.6		91.1	92.1	83.8	77.1	10.4	63.8
19	4.19	67.0	9 .99		68.6	4.69	71.5	73.7		18.5	80.2	83.0		87.3	88.3	19.8	73.1	66.5	59.8
20		4.29	4.70		04.0	65.3	4.79	9.69		24.5	76.1	78.9		83.2	84.1	75.4	68.7	62.1	55.4
24.		53.3	53.6	56.9	56.2	57.0	9.0	61.1	63.8	6.59	67.5	79.7	73.9	75.1	76.0	67.5	9.09	53.9	47.2
61	1.64	48.8	1.64	52.6	51.8	52.6	4	4.6		2.13	4.2.4	65.4	7.09	71.1	21.0	4.14	56.7	0	7.27
		44.2	44.0		47.1	47.9	1.64	51.8			5.8	61.7	65.1	66.7	67.6	200	52.5	45.8	39
4		39.3	39.5	42.8	42.0	45.8	40 44	46.5			53.	56.6	60.1	62.0	62.8	54.7	48.0	41.4	34.7
34		33.9	34.0	37.2	36.3	37.1	38.7	40.7	43.1	45.2	47.4	51.0	54.6	56.8	57.7	6.64	43.2	36.6	29.9
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. SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

SIO	DISTANCE = 250	SO FEET		250 FEET) OMEGA 6.2) TEST 76-571-00	76-571-002
NOISE SOURCE F-101 ENG. J57 GROUND R	T.P.		OPERATIONS (MILITA) SINGLE (DEFLEC	ENGI ENGI TED F	NER, F-101 NE, 97% RPM LOW +0.208	30 0 0 BE	METEOROLOGY: TEMP BAR PRESS REL HUNIO	\$ = 29.92 0 = 70	71 N N N H O) ATCH AT CODE) OPERATION CODE) PROFILE VERSION) 25 MAY 76	ADERAFI CODE 571 OPERATION CODE 01/104 PROFILE VERSION A 25 MAY 76 PAGE J1
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> SPL DATA MERE EXTRAPOLATED FOR THIS ANGLE.

NOTSE SOURCE/SUBJECT:		:	1/3 OCTAVE DISTANCE =			EET												OMEGA TEST 7	122	-002	
90 80 91 92 93 94 95 96 100 110 91 88 89 90 92 93 95 96 96 96 97 98 100 110 92 93 95 95 96 96 96 97 91 100 101 101 102 106 101 <t< th=""><th>ž</th><th>OISE SOUR F-101 ENG. J57- GROUND RI</th><th>CE/SUBJE AIRCRA -P-55 UNUP</th><th>51</th><th></th><th>0</th><th>AFTERE SINGLE DEFLEC</th><th>SURNER SURNER FENGI TEU F</th><th>A . 3</th><th>POWE 101</th><th>~</th><th>tul tul</th><th>1257 14</th><th></th><th>29 92 7 1</th><th>F N HG</th><th>1</th><th>AIRCRAFT OPERATION PROFILE V 25 MAY 76 PAGE C2</th><th>_ w</th><th>CODE D</th><th>571 01003 A</th></t<>	ž	OISE SOUR F-101 ENG. J57- GROUND RI	CE/SUBJE AIRCRA -P-55 UNUP	51		0	AFTERE SINGLE DEFLEC	SURNER SURNER FENGI TEU F	A . 3	POWE 101	~	tul tul	1257 14		29 92 7 1	F N HG	1	AIRCRAFT OPERATION PROFILE V 25 MAY 76 PAGE C2	_ w	CODE D	571 01003 A
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90 92 91 92 97 101 97 104 107 110 112 116 92 95 91 91 92 100 96 103 105 108 110 113 86 88 87 89 93 94 101 103 106 108 111 43 85 85 87 80 94 92 98 101 103 106 107 111 83 85 85 87 80 94 92 98 101 105 109 109 109 107 173 79 80 82 86 99 88 94 95 101 102 105 74 75 76 78 81 86 84 90 92 97 99 102		1600	18	87				100	16	104	106	109	112	115	117	117	110	106	06	80	20
92 95 91 91 95 100 96 103 105 108 110 113 86 88 87 89 93 98 94 101 103 106 108 111 113 43 85 86 88 92 97 93 101 103 106 107 111 43 85 85 87 90 94 92 98 101 105 105 109 109 109 109 109 109 109 109 109 109		2000	90	92				101	16	104	107	110	112	116	117	116	111	108	90	80	7.0
86 88 87 89 93 98 94 101 103 106 108 111 84 86 85 48 92 97 93 101 103 106 107 111 43 85 85 87 90 94 92 98 101 104 105 109 80 81 82 84 88 92 90 96 98 101 103 106 78 79 80 82 86 90 88 94 95 100 102 105 74 75 76 78 81 86 84 90 92 97 99 102		2500	95	95				100	96	103	105	108	110	113	115	115	108	105	85	15	65
84 86 85 48 92 97 93 101 103 106 107 111 43 85 85 87 90 94 92 98 100 104 105 109 84 81 82 84 88 92 90 96 98 101 103 106 73 79 80 82 86 94 88 94 95 100 102 105 74 75 76 78 81 86 84 90 92 97 99 102		3150	98	88				86	46	101	103	106	108	111	113	113	106	102	84	14	49
43 85 85 87 90 94 92 98 140 104 105 109 84 84 81 82 84 88 92 90 96 98 131 103 106 78 79 80 82 86 94 88 94 95 100 102 105 74 75 76 78 81 86 84 90 92 97 99 102		0007	18	96				46	93	101	103	106	107	111	112	112	105	100	83	73	63
84 81 82 84 88 92 90 96 98 131 103 106 78 79 80 82 86 94 88 94 95 100 102 105 74 75 76 78 81 86 84 90 92 97 99 102		2000	83	85				16	95	96	100	104	105	109	110	109	103	86	80	20	9
78 79 80 82 86 9u 88 94 95 100 102 105 74 75 76 78 81 86 84 90 92 97 99 102		6300	30	81				95	90	96	86	101	103	106	108	108	102	26	7.8	89	28
74 75 76 78 31 86 84 90 92 97 99 102		8 000	78	79	•			96	88	76	96	100	102	105	107	106	66	96	15	9	22
		10000	74	15	1			96	9,4	90	35	26	66	105	105	104	16	95	11	61	21
107 107 107 110 111 114 112 116 118 121 124 129		OVERALL	101	107	107	11	111	114	112	116	118	121		129	134	134	131	128	109	66	89

. SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

NOISE SOL	AS A F															A CHECK	OMECA B 2	2	
NOISE SOL		LONGITON	OF.	ANGLE A	AND DISTANCE	TANCE	FROM S	SOURCE								TEST	T 76-571	71-002	
GROUP	SE SOURCE/SUBJECT: F-101 AIRCRAFT ENG. JS7-P-55 GROUND RUNUP	JBJECT 1	_ -	33333	OPERA	OPERATION: AFTERBURNER, MA. SINGLE ENGINE, F DEFLECTED FLOM EST. F-100 +0.20	IRNER, ENGINE ED FLO		(POWER -101		METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	PRESS HUMIO	= 59 = 29.92 = 70 • 2.08	FHX	9	PRO DPE	RAFT ATIO	CODE	971 01003
DISTANCE (FEET)	•	10	20	36	3	5.0	6.0	7.0	ANGLE		(DESREES) 90 100	116	120	130	140	150	160	>170	180
200	118.2			120.4	m	126.8	124.1		131.7	134.	137.3	141.2	144.4	144.5	10	~	117.2	107.2	97.0
250	116.0	117.4	110.5	118.2	121.1	124.6	121.9		129.5		135.1	139.0	142.2	142.4			115.0	105.0	94.8
100		112.9	112.0	113.7	. 10		117.4		124.9	128	130.5	134.5	137.7	138.0		M	110.6	100.5	90.6
200	3	110.5	109.6	111104	-		115.0	9	122.5	125.	128.1	132.1	135.4	135.7		0	108.3	98.2	87.8
930	106.5	108.0	107.0	109.0	9		112.4	_	119.9			159.6	133.0	133.4	1112	~	105.9	95.7	85.2
909	103.9	105.3	104.4	100.5	0		109.4	*	117.3		122.9	127.0	130.5	130.9	_	M	103.3	93.1	82.6
1600			101.6	103.9	106.4	119.6	1.7.2	112.6	114.5	117.6	N	124.3	128.0	128.4		120.8	100.6	90.3	79.6
1250	98.5	99.5		101.2	103.6	106.6	104.4	103.6	9	114.6	117.3	121.4	125.	125.7	121.7	118.0	97.7		76.9
1500			95.4		100.1	103.4	101.5	106.4	108.4	1111.5	14.1	118.3	122.4			115.2	94.6	84.2	73.7
2000				95.2	97.7	10001	4.86	102.9	105.0	108.1	10.8	115.2	119.		115.9	112.3	91.4	81.0	70.6
2500			88.		93.9	96.3	34.6	99.1	101.2	104.3	17.1	111.9	115.7			108.5	87.7	77.3	66.8
3150	8 ** *	84.2	84.5		9.69	95.6	9006	4.56	97.0	100.3	13.3	108.3	111.			104.6	83.9	73.5	65.9
0004	19.6		80.1	93.5	85.3	88.3	86.4	91.1	92.7	96.1	99.5	104.1	107.6			100.3	19.5	69.1	58.3
2000	7 4.4		75.4		9.09	83.6	81.6	86.3	88.0	91.3	94.8	4.66	102.9			95.6	74.8	64.2	53.1
6300	69.3	9.69	70.3	73.8	15.6	78.6	76.6	81.4	83.3	86.4	89.9	94.5	98.1			90.7	8 .69	59.0	47.3
8000	4.59		66.2		71.4	74.3	15.5	77.1	78.7	7 82.1	35.6	90.4	94.1			86.9	65.7	24.7	42.3
												,	;		;		;		;
2001	9.10		010	65.4	9.0		99.1	9.21	7 ** 7	9.27	500	90.1	60	5000	86.3	85.9	21.5	4.6	30.0
15500	56.3		20.0	9	62.1		63.5	2.19	69.3	12.1	6.57	81.3	82.	85.7	81.8	78.3	56.3	43.9	53.0
16000	51.1		51.5		26.6	29.4	57.8	62.1	63.8	67.3	20.5	76.1	80.2	80.7	77.0	73.4	20.8	37.3	20.3
20000	42.4	44.	44.0	0.64	53.8		51.6	26.0	91.6	61.2	04.8	10.4	**	75.3	71.8	68.1	44.5	29.3	7:
25000	38.9		37.5	611	44.4		45.4	43.2	2	E1. 2	2	24	9	0	66 F	62	35	4 7	

NOISE SOURCE/SUBJECT: (OPERATION: F-101 ENG. J57-P-55 (ESTGE GROUND RUNUP (EST. F-101 ENG. J57-P-55 (EST. F-102 ENG. J57-P-55 (EST. F-103 ENG. J57-P-55 (EST. F-104 ENG. J57-P-55 (EST. J57-P	RATION: AFFEBURNER, MAX POWEF SINGLE ENGINE, F-101 DEFLECTED FLOM EST. F-100 + 0.208 50 60 70	001100) TEST	TEST 76-571	-005
119.4 121.4 118.7 121.5 123.3 127.9 117.2 119.2 116.5 119.3 121.1 125.7 115.0 117.0 118.7 12.5 123.3 127.9 115.0 117.0 1	, 0	101	METEOR METEOR METEOR METEOR	METEOROLOGY: TEMP BAR PRESS REL HUMID DELTA N =	= 59.92 = 29.92 = 70	FIN X H HG	AIRCI OPER PROFI	RAFT ATION ILE VE	CODE 571 CODE 01003 RSION A
119.4 121.4 118.7 121.5 123.3 127.9 117.2 119.2 116.5 119.3 121.1 125.7 115.0 117.0 118.8 123.5 112.7 114.3 117.0 118.8 123.5 1112.7 114.7 115.0 118.8 116.5 121.1 110.3 112.2 119.6 112.5 114.1 118.7 110.5 110.1 111.6 116.5 121.1 110.5 110.1 110.5 110.1 118.7 105.1 107.1 104.4 107.6 109.0 113.5 105.5 107.7 99.7 101.2 96.6 99.4 100.7 104.5 99.6 99.6 99.6 99.6 99.6 99.6 99.6 99		ANGLE 80	OEGREES 90 100	110	120	130 140	0 150	160 >1	>170 >180
117.2 119.2 116.5 119.3 121.1 125.7 115.0 117.0 1114.8 115.7 1114.7 112.0 114.8 116.5 123.5 1110.3 112.7 1114.8 116.5 121.1 110.3 112.7 1114.8 116.5 121.1 110.3 112.7 103.6 112.5 114.1 118.7 107.8 109.7 107.0 110.1 111.6 116.7 105.1 107.1 104.4 107.6 109.0 113.5 105.1 107.1 104.4 107.6 109.0 113.5 95.9 97.7 101.2 96.9 96.9 96.7 100.7 104.5 95.9 96.9 97.7 101.2 89.9 97.7 101.2 89.9 97.7 101.2 89.9 97.7 101.2 89.9 97.7 101.2 89.9 97.7 101.2 80.6 91.0 80.1 80.4 85.3 89.5 75.2 75.8 75.4 79.5 80.6 84.2 69.5 69.8 69.2 75.2 75.8 75.4 79.5 80.6 84.2 65.6 65.8 66.2 70.0 71.4 74.6	129.	9 131.7 1	134.9 137.	3 142.4	145.7 1	145.9 141	.7 138.2	117.2 107	
115.0 117.0 114.3 117.0 118.8 123.5 112.7 114.7 118.8 123.5 1110.3 112.7 114.8 116.5 121.1 110.3 112.2 103.6 112.5 114.1 118.5 121.1 107.8 109.7 107.0 110.1 111.6 116.2 105.1 107.1 107.1 104.4 107.6 109.0 113.5 105.2 107.7 99.7 101.2 98.6 102.3 103.6 107.7 99.9 97.9 97.9 95.4 99.4 100.7 104.5 99.9 97.4 95.7 101.2 89.9 97.4 95.7 85.9 84.6 93.6 93.6 93.7 85.9 84.5 81.6 84.8 85.3 89.2 75.2 75.8 75.4 79.5 80.6 84.2 69.2 69.8 75.2 75.8 75.4 79.5 80.6 84.2 65.6 65.8 70.3 74.3 75.6 77.0 65.6 65.8 66.2 70.0 71.4 74.6	121.9 127.7	129.5	132.7 135.	140.2			6 136.	115.0 10	
112.7 114.7 112.0 114.8 116.5 121.1 110.3 112.2 109.6 112.5 114.1 118.7 107.8 109.7 107.0 110.1 111.6 116.2 105.1 107.1 104.4 107.6 109.0 113.5 99.7 101.2 98.6 102.3 103.6 107.7 99.7 101.2 98.6 102.3 103.6 107.7 99.9 90.4 92.3 97.7 101.7 89.9 90.4 86.4 92.6 93.9 97.7 85.9 90.4 86.4 92.6 93.9 97.7 85.9 84.5 88.9 89.6 93.7 85.2 75.8 75.4 79.5 80.6 84.2 69.8 70.3 70.3 74.3 75.6 79.0	125.	127.2	30.4 132.	138.0			5 133.		
105.1 107.1 104.4 107.6 111.6 115.5 1105.1 1105.1 1105.1 1105.1 107.1 1104.4 1107.6 1105.1 111.6 115.5 1105.1 107.1 1104.4 1107.5 1104.5 107.6 109.7 107.2 93.6 102.3 103.6 107.7 99.6 97.9 95.4 1017.7 1017.7 99.6 97.9 95.4 1017.7 1017.7 95.9 95.9 95.9 95.7 1017.	123	124.9	128.1 130.5	135.7	139.0 1	139.3 135.	3 131.7		100.5 90.
105.1 107.1 104.4 107.6 109.0 113.5 102.5 104.3 101.6 105.0 106.4 110.7 99.7 101.2 98.6 102.3 103.6 107.7 99.9 77.9 92.4 100.7 104.5 93.6 94.4 92.4 96.3 97.7 101.6 89.9 90.4 86.4 92.6 93.9 97.4 85.7 85.9 84.5 88.9 89.6 93.7 75.2 75.8 75.4 79.5 80.6 84.2 69.8 70.3 70.3 74.3 75.6 79.0	118.	119.9	23.1 125.	130.8			7 127		
102.5 104.3 101.5 105.0 106.4 110.7 99.7 101.2 98.6 102.3 103.6 107.7 99.9 97.9 95.4 99.4 100.7 104.5 93.6 94.9 92.6 93.9 97.7 101.2 89.9 90.4 85.3 97.7 101.2 85.7 85.9 84.5 83.9 92.6 93.9 97.4 85.7 85.9 84.5 83.9 89.6 93.7 75.2 75.8 75.4 79.5 80.6 84.2 69.8 70.3 74.3 75.6 79.0 65.6 65.8 66.2 70.0 71.4 74.6	109.8 115.	4 117.3	20.4 122.	128.2		128	m	-	
102.5 104.3 101.5 105.0 106.4 110.7 99.7 101.2 98.6 102.3 103.6 107.7 90.9 90.4 1010.7 104.5 93.6 97.9 95.4 92.6 93.9 77 101.2 93.6 93.9 97.8 95.6 93.9 97.8 95.6 93.9 97.4 95.6 93.9 97.4 95.6 93.9 97.4 95.6 93.9 97.4 95.6 93.9 97.4 95.6 97.9 97.9 97.9 97.5 97.6 97.9 97.9 97.9 97.9 97.9 97.9 97.9									
99.7 161.2 98.6 102.3 103.6 107.7 99.9 91.9 97.9 95.4 99.4 100.7 104.5 93.6 93.6 102.3 103.6 107.1 104.5 93.6 93.6 93.9 93.9 93.4 92.6 93.9 97.4 92.6 93.9 97.4 92.6 93.9 97.9 97.9 97.9 97.9 97.9 97.9 97.9	112.	5 114.5	120.	2 125.5	-		~	100.6	m
90.9 97.3 95.4 99.4 100.7 104.5 93.6 93.6 93.0 97.7 101.2 89.9 93.4 80.4 95.6 93.6 97.7 101.2 80.4 85.7 85.9 84.5 80.5 83.6 93.7 85.6 91.0 80.1 84.4 85.3 89.2 75.2 75.8 75.4 79.5 80.6 84.2 69.8 70.3 70.3 74.3 75.6 79.0 65.6 65.8 66.2 70.0 71.4 74.6	109.	5 1111.0	117.	3 122.6			9 119.5	7.16	87.3 76.9
93.6 94.4 92.3 96.3 97.7 89.9 91.4 86.4 92.6 93.9 85.7 85.9 84.5 88.9 89.6 81.6 61.0 81.1 84.4 85.3 75.2 75.8 75.4 79.5 81.6 69.8 71.3 71.3 74.3 75.6 65.6 65.8 66.2 71.0 71.4	106.	. 108.4	114.		~			9.46	2
89.9 91.4 64.4 92.6 93.9 85.7 85.9 84.5 68.9 89.6 81.6 61.0 81.1 84.4 85.3 75.2 75.8 75.4 79.5 80.6 69.8 77.3 77.3 74.3 75.6 65.6 65.8 66.2 70.0 71.4	98.4 102.	9 105.0	108.1 110.	8 116.4	1	121.2 117.1		91.4	0
85.7 85.9 84.5 88.9 89.6 80.6 61.0 80.1 84.4 85.3 75.2 75.8 75.4 79.5 80.6 69.8 70.3 74.3 75.6 65.6 65.8 66.2 70.0 71.4	66	1 101.2	107.	1 113.1	0			87.7	~
80.6 61.0 84.1 84.4 85.3 75.2 75.8 75.4 79.5 80.6 69.8 70.3 74.3 75.6 65.6 65.6 65.2 70.0 71.4	95	. 97.3	103.	109.	7			83.9	
75.2 75.8 75.4 79.5 80.6 69.8 70.3 70.3 74.3 75.6 65.8 66.2 70.0 71.4	91.	1 92.7	99.	105.			101		_
69.8 70.3 70.3 74.3 75.6 65.6 65.8 66.2 70.0 71.4	81.6 86.	3 88.0	94.	8 100.1			.8 96.5		~
65.6 65.8 66.2 70.0 71.4	81.	_	89.	9 95.0	99.6	6	91.	69.8 5	•
		1 78.7	85.	2.06 9	2	06 8 30	.6 87.2	~	
		,							
01.0 60.9 61.7	68.1 72.	2 14.2	7.0 80.	9 56.1	89.8	90.3 86.	.5 82.8	61.2	49.8 36.2
50.3 56.0 56.8 00.6 62.1 04.	67.	69	15.		2	_	8 78	56.3	•
1 50.3 51.2 55.1 56.6 59.	62.	63.	70.		2	~	0 73.	50.8	•
45.4 44.3 44.8 49.0 50.8	56.	9.75 0	9			2	80		_
38.9 37.7 37.6 41.9 44.4 46.	49.	51.	58.		-	6	5 62.	_	8.2

URCE/SUBJECTS URCE/SUBJECTS J57-P-55 ND RUNUP 104.2 104.9 102.1 102.8 100.6 100.6 97.8 98.4 97.8 98.4 97.8 98.7 97.8 98.7	Λανκνου	30 107.8 11 105.7 10 101.4 10 99.0 9	0PERATIONS SINGLE SINGLE DEFLEC EST F 40 50 110.6 113.6 110.5 111.5 106.3 109.3 104.1 107.1 101.9 104.8 99.7 102.5	ATION: SIVGLE ENGINE, BIVGLE ENGINE, DEFLECTED FLOW EST. F-100 + 0. 113.5 1109.0 1 111.5 1109.0 1 111.5 1109.0 1 1107.1 1104.7 1 1107.1 1104.7 1 1107.2 1104.7 1	ATION: AFTERNURER, MAX POWER SINGLE ENGINE, F-101 DEFLECTED FLOW EST. F-100 +0.208 113.6 111.2 116.7 118 111.5 109.0 114.5 116.1 1109.3 106.9 112.3 114. 1109.3 106.9 112.3 114. 1107.1 104.7 110.1 112. 1107.1 104.7 110.1 112. 1107.2 100.2 103.5 107.9 109.	7 F - 101 - 208 - 208	Stanke S	(00) 900 1100 1100 1100 1100 1100 1100 11) METEOROLOGY) BAR PRE:) BAR PRE:) BELTA N =) DELTA N = (DEGREES) 1.6 124.9 128. 9.6 122.8 126. 7.5 124. 124. 5.2 118.4 122. 2.9 116.2 119. 2.9 116.2 119.	110 CCY: 110 LIZE: 5 TITE: 110 LIZE: 1120 LI	S = 29,92 0 = 70 2 08 120 131.8 13 122.7 12 127.5 12 127.5 14 127.5 14	131 8 123 . 7 123 . 131 8 123 . 7 125 . 5 5 5 5 5 5	140 140 123 123 121	153 153 151 151 1153 1153 1153 1153 115	103.8 101.7 103.8 101.7 99.6 95.2	CODE ERSION >170 93.8 94.7 89.6 87.4	571 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
104.2 104.9 162.1 102.8 100.6 100.6 100.6 100.6 97.6 96.7 93.3 93.9 91.0 91.5 88.7 89.1							ANGL 118.6 116.6 117.0 117.0 117.0 117.0	066 90 1121.8 113.5 115.2	AEES) 100 1124.9 1120.6 1118.4 115.2				140 127. 125. 123.		160 103.8 101.7 99.6 97.4 95.2	0000000	180 83.8 81.7 79.6 77.4 75.2
104.2 104.9 102.1 102.8 100.6 100.6 97.8 98.4 93.3 93.9 91.0 91.5 88.7 89.1							18.6 14.2 12.0 09.7		124.9 122.8 120.6 1118.4 115.2				127. 125. 123. 123.			93.0 91.7 87.6 85.2	83.8 61.7 79.6 77.4 75.2
162.1 102.6 160.6 160.6 97.6 98.4 93.3 93.9 91.0 91.5 88.7 89.1							16.4 112.0 09.7		122.8 120.6 118.4 116.2 113.9				125. 123. 121.			91.7 89.6 87.4 83.0	79.6 77.4 75.2
100.6 100.6 1							12.0		120.6 118.4 116.2 113.9				123.			8 9 3 4 5 6 6 9 4 5 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	77.4
95.6 96.2 93.3 93.9 91.0 91.5 86.7 89.1							1.00		116.2							85.2	75.2
93.3 93.9 91.0 91.5 88.7 89.1 86.2 86.5								•	113.9				113			63.0	73.0
91.0 91.5 88.7 89.1 86.2 86.5				۸.						117.6			116.				
88.7 89.1						-	-		111.6	115.3						2.09	7.07
86.2 86.5	89.1 9	4				100.7 1	102.5	105.7	109.1			116.4				78.3	68.3
				95.2				103.2	106.6	110.4					85.8	15.8	65.8
83.6 83.8		*				9.5		100.5	104.1						83.2	73.2	63.2
81.0 81.0		80				92.7	0	7.76	101.4							20.5	60.5
17.9 77.8						19.7		2.46	98.4			105.		97.		9.19	9.76
74.4 74.4		9				36.5	2	91.5	95.2	99.0		102.		94.		9.49	24.4
10.5	71.2 7	1 0.61	17.4 7	6.62	17.9	85.9		87.8	91.7	95.4	98.6	98.	94.	90.	70.8	60.8	50.8
66.3 66.2		6				8.8	2	83.7		91.3		94.		3		26.8	46.8
61.8 61.6		2				4.4	-	79.3		86.9	90.0	90.2	85.		62.4	52.4	45.4
8000 58.1 57.8 5	58.8 6					0.3	71.9	15.2	79.3	63.0	86.1	86.4	82.0		58.4	4.8.4	38.4
54.0 53.8						65.6	67.5	70.8	74.8		81.	82.				44.1	34.1
						51.0	62.6	6.59	70.0		77.		73.		.64	39.4	29.4
0.44 6.44		48.9 5	50.8	52.9	51.5	55.7	57.3	9.09	9.49	69.0	72.3	72.8	8 .89	4 . 69 1	44.3	34.3	24.3
39.7 39.3		*				6.6	51.5	54.8	58.7		99	67.	63.			28.8	18.8
34.0 33.6	33.8 3	*				43.6	45.2	48.4	52.3		60		57.9			23.0	13.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

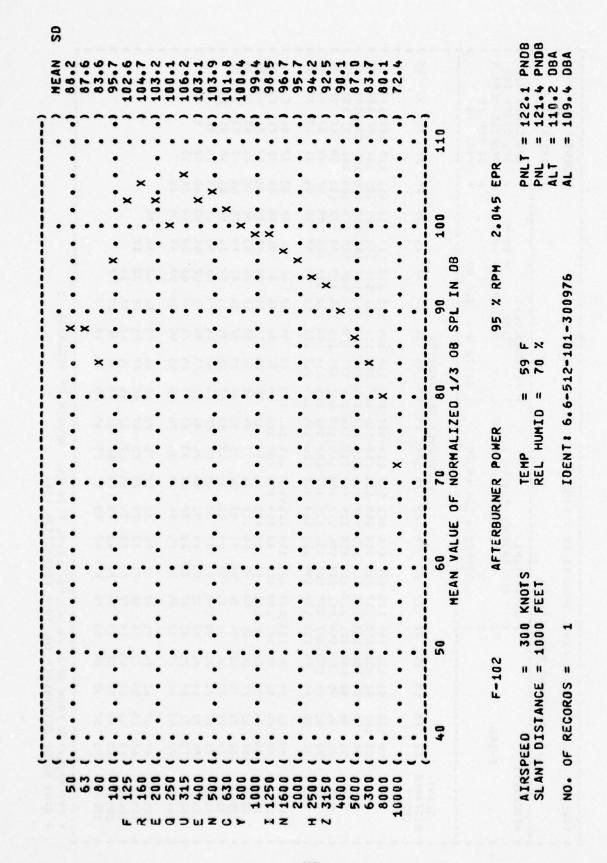
ANDESE SOURCE/SUBJECT: F-101 ENG. J57-P-55 GROUND RUNUP DISTANCE (FET) 20 105.5 100.7 104 250 103.4 104.6 102 315 101.2 102.4 100 315 101.2 102.4 100 315 101.2 102.4 100 315 101.2 102.4 100 315 101.2 102.4 100 315 101.2 102.4 100 315 101.2 102.4 100 315 101.2 102.4 100 315 1000 99.3 97.9 93 315 1000 89.9 90.8 89	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0PERATION: 0PERATION: 0PFLECE 0EFLECE 0110.6 114.7 1108.5 112.6 1104.1 1108.5 112.6 110.4 110.6	1 2 -11	ENGINE, FAX ENGINE, F- ED FLOM 1100 + 0.20B 1111.2 116. 1109.6 1114. 1106.9 112. 1104.7 110. 1104.7 110. 1104.7 110. 1104.7 110.	1 27	5 0+ve	2000 0000		PRESS HUMID 110	2 = 59 2 = 29,92 0 = 70 2 DB 2 DB 120 1 133,1 13 133,1 13 126,6 12 126,7 126	LHX M	÷	AIRCRAF OPERATI PROFILE 25 MAY DAGE G		CODE COOE RSION	571 01003 A A 5180 83.8
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1101 101.0 990.1 96.9 97.6 99.9 99.9		106. 106. 107. 107. 998.				~ ~ ~ ~ ~ ~ ~				129.8			140	150	160		83.8
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94.9		101. 98. 95.				m 4			118.4	123.3		126.8	122.	119.0	97.4	87.4	77.4
92.3		98.				5 -1				121.1		124.6	120.		95.2	85.2	75.2
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84.9		88.	89.9			10	97.3 1			109.0	112.5		108.4	105.0	83.2	73.2	63.2
82.2		85.	87.3			~				136.4	103.8		105.7	102.4	80.5	70.5	60.5
79.1		82.	84.3			49.7		2006	4.86	103.4	106.9		102.6	99.3	77.6	67.6	57.6
15.7		79.	81.0			2				100.2	103.5	103.8	99.3	96.0	74.4	4.49	24.4
71.6	71.9 71.2	15.	17.4	80.8		6	84.6			96.4	99.66	66.6	95.3	95.0	20.8	60.8	50.8
5000 67.1 67		71.	73.4			80				95.0	95.2	95.4	6.06	87.4	8 • 99	8.95	40.8
62.3		67.	69.0			4				4.78	90.5	90.8	86.2	82.7	62.4	52.4	45.4
	2	62.	65.0			m				83.2	86.4	86.7	82.3	78.7	58.4	4.8.4	38.4
10000 54.6 53	53.8 54.6	58.	60.7			6	67.5	70.8	74.8	78.7	81.9	82.3	78.0	74.5	54.1	44.1	34.1
49.7		54.	56.0				62.6	69.69	70.0	74.1	77.3	77.7	73.6	70.1	4.64	39.4	29.4
6 * * *		6.84 1	50.8	52.9	51.5	55.7	57.3	9.09	9.49	69.3	72.3	72.8	68.8	65.4	44.3	34.3	24.3
39.7		43.	45.1			6	51.5	54.0	58.7	63.3	600	67.4	63.6	60.1	38.8	28.8	18.8
34.0		37.	38.9			.0	45.2	48.4	52.3	57.1	6009	61.5	57.9	54.4	33.0	23.0	13.0

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

### 51 Part	dies aston	DISTANCE = 250	FEET) TEST 76-571-002	5.5
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. SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

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F-102 F-102 F-102	NOISE PRODUCED ON THE GROUND BY	F-102 AIRCRAFT	FLYOVER MEASUREMENTS AIRCRAFT CODE: 512 PROFILE VERSION: 4 COMPUTER PROGRAM OMEGA		EPR	THE FOLLOWING DATA	ANT DIST CTRA L, ALT, CTRA L, ALT, SEP 76	L A I R S F	F-102 F-102 F-102
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				POWER SETTING	AFTERBURNER 95% RPM, 2.045 TAKEOFF 94.5% RPM, 2.0 EPR TAKEOFF 92.3% RPM, 1.75 EPR APPROACH 89% RPM	FOR EACH POWER	NORMALIZED MEAN NOISE LEVELS AS AIR-TO-GROUN SOUND PI SOUND TO GROUND-TO-GR	8 H 0 D 0 D 0 D 0 D 0 D	F-102 F-102
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TABLES	SOUN AIR-	SOUND PRESSURE LE AIR-TO-GROUND PRO	ROUN	IRE LE	PA K	CATION	SCT RA	AS	A FU	FU NCT I ON		OF SL	SLANT	DIST	DISTANCE	(08)	*				DENTIF	IDENTIFICATIONS OMEGA 6.6	ATI0 6.6	ž
AIRCRAFT	F-102	2				OPER	AFTER 95 AIRSP	S X RPH	P	0 0 0	ER 045 EP	œ		ETEO	ETEOROLOGY TEMP REL H ELTA N =	EY:	10 10 00 00 00 00 00 00 00 00 00 00 00 0	59	u ×	7	PROPE	A/C CODE OPS CODE OPS CODE OPS CODE OPS CODE OPS OP OPS OPS	W.	512 101 R: A
SLANT DISTANCE (FEET)	17	18	19	20	12	52	23	24	25	FRE 26	QUE	NCY B	29	NUMB	31	32	33	ň	35	36	3	89	68	3
200 250 315 400	102 100 98	102 100 98	96	110 108 106	115	119	112	114 1112 1110 1110	121 119 117	118 116 114	1119	117 115 1113	1111	1115	1114	1113 111 109	1113	1112	1112	111111111111111111111111111111111111111	1104	100	105	1112
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1600 1250 1600	0000	986	84	96	103 101 98	103	101 101 99	98	1064	101	104	102 100 97	100 98 96	96	96	94	96	94 6 6 7 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	90	82	\$27	90 45	50 20 20 20 20 20 20 20 20 20 20 20 20 20
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(* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

* BAND WHICH DETERMINES THE TONE CORRECTION (C).

AIR-TO-GROUND	ROUND PROP	AGATION						OMEGA 6.6
AIRCRAFT:		(OPERATION:		~~	METEOROLOGY : TEMP	"	59 F	A/C CODE: 512 OPS CODE: 101
F-102		2 56		EPR)	REL	HUMIO =	70 %)	ILE FP
		(AIRSPEE	D = 300 KNOTS	TS)	DELTA N =	0.0 08	-	PAGE I1
SLANT DISTANCE	Ą	ALTON	ď	PNLT*		SEL	SELT**	* NO.
(FEET)	(08A)	(084)	(PNDB)	(PNDB)		(08)	(08)	(EPN08)
200	125.5	126.3	138.8	139.6		122.7	123.5	127.1
250	123.3	124.1	36.	137.3		121.5	122.3	125.8
315	121.1	121.9	134.2	134.9		120.3	121.1	124.4
00+	118.8	119.6	131.7	132.5		119.0	119.8	122.9
200	116.5	117.3	129.2	58.		117.7	118.5	121.4
630	114.2	115.0	126.5	127.3		116.4	117.2	119.8
800	111.8	112.6	124.0	24.		115.0	115.8	118.2
1000	109.4	110.2	121.4	122.1		113.6	114.4	116.6
1250	106.9	107.7	118.7	19.		112.1	112.9	114.9
1600	104.4	105.2	116.0	116.7		110.6	111.4	113.2
2000	101.8	102.6	113.2	113.9		109.0	109.8	111.4
2500	99.1	6.66	110.3	111.0		107.3	108.1	•
3150	96.3	97.1	107.3	108.1		105.5	106.3	107.6
0004	93.5	94.1	0	104.9		103.6	104.3	105.3
2000		6.06	101.1	101.6		101.6		103.0
6300	87.3	9.78	6.76	98.2		99.5	8 • 66	100.6
9000	84.0	84.1	6.46	9.46		97.1	•	
10000	4.08	90.4	6.06	6.06		9.46	9.46	95.3
12500	76.7	76.7	87.1	87.1		91.9	91.9	92.5
16000	72.8	72.8	83.0	83.0		89.0	89.0	4.68
20000	68.5	68.5	78.5	78.5		85.7	85.7	85.9

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

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250	315	400	200	630	800	1000	125	1600	2000	2500	3150	4000	2000	6300	8000	10000	12500	16000	20000	25000

	GROU	GROUND-TO-GROUND	0-68	SOUNE	9	OPAGA	AGATION														OMEGA	A S	OMEGA 6.6	
AIRCRAFT	F-102	8				OPER A A	ATIO FTER 95	BURN SURN EED	3 2 0 0	2.04 0 KN	S EP	œ	20000	EL1	OROLOG TEMP	F G	= 01	59	F %	1	A/C OPS PROF 30	A/C CODE OPS CODE PROFILE 30 SEP 7 PAGE L1	* * * * * * * * * * * * * * * * * * *	12 01 * A
SLANT DISTANCE (FEET)	11	18	13	20	21	22	23	54	25	FRE 26	QUEN 27	NCT B	AND 29	NUMB 30	31	32	88	\$	S.	36	37	80 10	39	3
200	26	16	93	105	112	-	112	0	9		14	112	-	10	60	9.0	80	20	0.7	90	0.5	9	107	0
250	95	95	91	103	110	112	110	107	114	111	112	110	108	108	107	106	105	105	104	104	102 1	102	103	103
315	93	93	89	101	108	-	108	0	2		60	108	0	90	90	10	03	02	35	01	66	66	100	9
004	91	91	18	66	106	0	106	0	0		10	105	0	03	03	01	01	00	66	66	96	96	96	95
200	89	68	85	16	104	0	104	0	1		90	103	0	01	0		98	96	16	96	93	95	95	8
630	87	87	83	95	101	0	101		10		63	101	0	66	96		96	95	46	95	06	88	87	8
860	85	85	81	35	96	0	86		m		0.1	66		26	96		93	95	91	83	96	84	82	76
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1600	2	2	2	00	20 (25	5 6		35	*	7	26	16	2 0	0 0		32	20	9	2	27	9	201	+
2000	16	*	68	43	82	98	82		91	91	95	95	80	87	92		81	7.8	15	20	69	28	14	3
2500	12	70	40	12	81	85	81		87	88	89	87	82	84	82		11	1	70	63	28	48	34	=
3150	99	65	9	20	92	11	92		83	83	96	40	82	81	19		73	69	49	26	64	36	18	
4000	49	9	24	49	7.0	11	20		11	52	82	81	19	11	15		68	63	96	94	38	22		
2000	29	96	20	9	69	19	65	62	7.1	73	18	11	15	73	7.1	99	9	96	48	35	52	t		
6300	24	51	45	55	9	62	09		69	29	73	72	7.1	69	99		26	84	37	21	10			
00	55	64	43	53	28	29	25		63	3	70	68	29	49	9	24	48	38	52	r.				
10000	64	14	64	20	56	25	55			61	99	79		66	24		38	27	10					
12500	24	11	38	84	53	24	55			25	9	66		55	94		27							
16600	45	42	36	45	50	51	64			53	57	24		45	37		13							
20000	43	0 4	33	43	48	84	45	41	48	48	52	47	42	36	56	12								
25000		**				-								-										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1 * BAND WHICH DETERMINES THE TONE CORRECTION (C).

AIRCRAFTS	ROP					-	OMEGA 6.6
	(OPERATION	URNER P		EPE		59 F	
F-102	36	% RPM 2.045	EPR)	REL H	HUMID =	0	PROFILE VERS
	(AIRSPE	ED = 300 KNOT	TS)	DELTA N =	0.0 08		PAGE M1
SLANT DISTANCE AL	ALT**	PNL	PNLT**		SEL	SELT**	EPNL **
9	•	(PNDB)	(PNDB)		(08)	(08)	(EPNOB)
200 120.5		133.8	134.8		117.7	118.7	122.2
250 118.3		131.5	132.5		116.5	117.5	120.9
		129.2	130.1		115.3	116.2	119.6
		126.7	127.6		114.0	115.0	118.1
		124.1	125.1		112.7	113.7	116.5
	110.1	121.4	122.4		÷	112.3	114.8
800 106.7		118.7	119.7		109.9	110.9	113.1
1000 104.3		116.0	116.9		108.5	109.4	111.4
1250 101.7	1	112.8	113.8		106.9	107.8	109.2
1600 99.0		109.7	110.6		105.2	90	107.1
		106.4	107.4		103.4	. 40	0
		102.9	103.8		101.3	102.3	102.3
		98.8	2.66		98.9	98.6	2.66
		;	95.0		96.1	96.8	95.5
		89.3	66.68		92.7	93.3	91.3
7	77.	;	84.5		89.1	89.5	87.0
8000 72.8	72.	•	80.2		86.0	86.1	83.6
		75.6	75.6		82.5	82.5	80.0
12500 63.4		70.8	70.8		78.6	78.6	76.2
16000 58.0	1 58.0	65.5	65.5		74.2	24.5	71.9
20000 52.2		9.65	6		4.69	4.69	67.1
25000 45.8		6556	5		64.0	64.0	61.4

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* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS:
 BAND WHICH DETERMINES THE TONE CORRECTION (C).

AIK-10-6	AIR-TO-GROUND PROP	AGATION					•	OMEGA 6.6
AIRCRAFT 8 F-102		(OPERATIONS (TAKEOFF (94.5 %	POWER 2.0	2.0 EPR)	HETEOROLOGY TEMP REL H	HUMID =	59 F)	88
		(AIRSPEEU	D = 300 KNOT	15	DELTA N =	0.0 08		30 SEP 76 PAGE I2
SLANT DISTANCE	A.	AL T**	PNL	PNLT**		SEL		EPNL**
(FEET)	(08A)	(08A)	(PN08)	(PN0B)		(08)	(80)	(EPNDB)
200	112.5	112.5	126.1	126.1		112.0		115.9
250	110.4	110.4	123.9	123.9		110.9		114.7
315	108.2	108.2	121.6	121.6		109.6		113.4
004	105.9	105.9	119.2	119.2		108.4		112.0
530	101.2	101.2	114.1	114.1		105.7	106.5	108.9
800	98.8	98.8	111.5	111.5		104.3		107.3
1000	2.46	96.3	108.7	108.7		102.8	103.6	105.5
1250		93.7	105.8	105.8		101.2	102.0	103.6
1600	91.1	91.1	102.8	102.8		99.5		101.6
2000	88.3	88.3	2.66	7.66		97.8		69.6
2500	85.4	85.4	96.3	96.3		69.6		97.1
3150	82.4	82.4	95.8	95.8		93.9		9.46
0004	79.3	79.3	89.5	89.5		91.8		92.2
2000	76.1	76.1	86.2	86.2		89.6		1.68
6300	72.8	72.8	82.7	82.7		87.3	87.6	
8000	4.69	4.69	19.0	79.0		6.48		84.2
10000	65.8	65.8	75.2	75.2		82.3		81.2
12500	62.0	62.0	71.3	71.3		79.5		78.3
16000	58.1	58.1	67.1	67.1		76.6		75.1
20000	53.9	53.9	62.5	62.5		73.4		71.5

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

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	GROU	1-0N	GROUND-TO-GROUND	ONNO	•	0	AGATION														OMEGA	A 6.	OMEGA 6.6	
AIRCRAFT	F-102	•		20222		OPER T	ATION AKEOF 94.5	1 * F % B	PM ER	2.0 2.0 6 KNOT		~	¥ 0	ETEOR ELTA	TEOROLOGY TEMP REL HU	HUMI 0.0	= 0	59 F		70000	A/C CODE OPS CODE PROFILE 30 SEP 7		# 51 WER:	2 m d
SLANT DISTANCE (FEET)	17	81	13	20	12	22	23	2.	25	FREG 26	QUENCY 27 28	7 BA	0 8 8	NUMBE 30	31	32	33	34	35	36	37	3.8	39	3
200	48	83	18	96	96	86	95		98	86	26	16	96	26	26	16	96	26	96	*		06	88	8
315	8 8	2 61	9 1	8 8	36	96	93	4 6	96	96	92	95	46	46	95	95	95	46	46	26	68	87	802	80
004	78	12	72	8 4	90	95	68		35	95	91	91	90	9 6	90	91	91	90	96	. ~		81	78	- 2
200	16	15	2	82	88	96	86		06	96	68	68	87	88	88	89	89	18	87	+		28	14	9
630	14	73	68	80	85	87	84		88	88	87	18	85	98	98	98	98	85	18	1		14	20	9
800	72	7.7	99	18	83	48	81		98	98	82	92	83	9.4	83	48	94	82	81	80		0.2	65	5
1000	2.0	69	49	25	80	81	78		94	83	83	83	81	81	81	81	81	61	8				66	4
1250	68	29	61	72	11	18	15	16	81	81	8.0	80	8 2	62	62	62	7.8	92	25	0.2	65	09	52	38
1660	99	9	28	99	73	75	7.1		18	62	28	8.2	92	92	92	92	75	73	-				*	27
2000	63	9	24	49	69	11	29		14	11	92	92	14	14	73	73	72	69	9		4		34	7
2500	29	26	20	9	69	29	63		20	73	73	73	7.1	7.1	20	20	68	65	2		89		22	
3150	52	25	45	22	9	62	28		99	69	20	7.1	89	89	29	99	49	9	9				1	
0004	51	47	04	20	25	96	55		09	49	99	29	69	69	63	62	09	55	6					
2000	45	42	35	45	20	51	47		24	66	62	63	62	61	65	58	55	64	2		8			
6300	94	38	31	40	45	94	43		48	53	58	65	25	25	55	55	48	41	~		4			
8000	38	36	53	38	43	**	40		94	96	24	25	53	53	20	94	41	33	_	-				
10000	36	33	56	36	3	41	37	38		14	51	51	64	84	11	39		22	∞					
12500	34	31	54	33	38	39	35	35		43	14	14	1 1	45	37	31		6						
16000	32	58	22	31	35	36	32	32	36	04	42	45	38	35	59	21	10							
20000	58	56	19	28	32	33	28	59		35	37	36	31	27	19	6								
2000			-	-	-		-	-		-				70.5										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS, NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

SLANT DISTANCE AL (DBA) SCO 107.5 200 107.5 250 105.4 315 103.2 400 100.9 500 96.6 630 96.2	OPERATIONS TAKEOFF P 94.5 % R AIRSPEED ALT** (DBA)	POWER 2.0	^	MFTFOROLOGY:			
N N C E	AIRSPÉE	200	EPR)	TEMP REL H	= 5 HUMID = 7	19 F)	A/C CODE: 512 OPS CODE: 103 PROFILE VER:
	ALT** (08A)		KNOTS	DELTA N =	0.0 08	~~	30 SEP 76 PAGE M2
	(08A)	PNL	PNLT**		SEL	SELT**	EPNL**
	07.	(PN08)	(PN08)		(08)	(90)	(EPNDB)
		121.1	121.1		107.0	107.8	110.9
	105.4	118.9	118.9		105.9	106.7	109.7
	103.2	116.5	116.5		104.6	105.4	108.3
	100.9	114.1	114.1		103.4	104.2	106.9
	98.6	111.6	111.6		102.1	102.9	105.4
93.	96.2	109.0	109.0		10001	101.5	103.8
	93.8	106.3	106.3		99.3	100.1	102.1
1000 91.2	91.2	103.4	103.4		47.7	98.5	100.2
	88.6	100.3	100.3		96.1	6.96	98.1
1600 85.8	85.8	97.1	97.1		94.3	95.1	6.56
2000 83.0	83.0	93.6	93.6		95.5	93.3	93.4
	79.8	89.7	89.7		90.3	91.1	90.5
	76.5	85.5	85.5		87.9	88.7	87.3
4000	72.7	80.9	80.9		85.2	85.8	83.5
	68.5	15.9	75.9		82.0	82.5	4.67
	0.49	9.02	70.6		78.5	78.8	75.0
8000 59.8	59.8	2.99	66.2		75.3	15.4	71.4
10000 55.2	55.2	61.5	61.5		71.7	7.1.7	67.5
12500 50.3	50.3	56.3	56.3		67.8	67.8	63.3
	45.0	50.8	50.8		63.5	63.5	58.8
20000 39.2	39.2	44.3	44.3		58.7	58.7	53.3
	33.0	36.6	36.6		53.5	53.5	1.94

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	= 300 KNOTS	PR POWER		0.0	* ,	
6.6-512-103-300976-A	= 0.0 08 CORDS: 1				× • ×	× ×
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MEAN VALUE OF CRUISE POW	30 40 KAUSE POW = 370 KNOTS CRUISE POW = 1000 FEET

TABLE	SOU	ON	SOUND PRESSURE ATR-TO-GROUND		200	EL	SPECTR	4	A S A		FUNCTION	0	F SLA	LANT	DIST	DISTANCE	(08)	*				DENT	IDENTIFICATIONS OMEGA 6.6	ATIC 6.6	ž
AIRCRAFT	1	0.5			•	1	PERAT CRU	CRUISE 92.3 %	POWER	A E	1.75		α	20000	ETEO	ROL TE		1 0 I	53	L×	1	A/C OPS	0016	W	512 104 R: A
SLANT DISTANCE (FEET)	17	-	61 8	9 20		212	22 22	2 2			FRE 26	о ш м	NCY BA	200	30 30	1 (1)	, w	8	* * * * * * * * * * * * * * * * * * *	35	9	£ 5		66	3
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500 630 800	72 70 89							900	400	889	855	89	0.68 0.88 0.89	80 80 0 0 4	89	89 48	83	98 99 4	8 8 8 8 6 8	884		78	822	75	000
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2500 3150 4000 5000 6300	* 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	525	1 20 22 22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	9020		669 7 669 7 669 66 66 66 66 66 66 66 66 66 66 66 66	74 74 74 74 74 65 65 65 65 65 65 65 65 65 65 65 65 65	0 C W W O 0	20032	65707¢	72 65 65 59	69 27 4 69 69 69 69 69 69 69 69 69 69 69 69 69	66 69 73	200000	53 53 53	60 60 51	43883	4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	32 4 4 9 6 1 9 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	32 4 4 9 6 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	23867	2 4 4 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	14 56	2 ~	
10000 12500 16000 20000 25000	33448	3354	34446	691468	789B1	10001	57 57 57 51 51 54 54 54 54	Mecan	44400 44400	£ 8 10 0 0	34 6 2 2 2 3 3 4 4 8 2 9 9	55 44 37 37	55 46 46 33	234661	23 32 51 71 71 71 71 71 71 71 71 71 71 71 71 71	20 33 8	2110	33	10	7					

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1 * BAND WHICH DETERMINES THE TONE CORRECTION (C).

AIR-TO-G	AIR-TO-GROUND PROP	AGATION						OMEGA 6.6
AIRCRAFT:		(OPERATIONS	POWFO	~~	METEOROLOGY TEMP	1	g.	A/C CODE: 512
F-102		(92.3 % R	,	1.75 EPR)	REL	HOMEO	70 %	PROFILE VERE A
		(AIRSPEED	= 370 KNOTS	115	DELTA N =	0.0 08		30 SEP 76 PAGE I3
SLANT DISTANCE	Ą	AL T **	d.	PNLT**		SEL	SELT**	EPNI *
(FEET)	(D8A)	(08A)	(PN08)	(PN08)		(00)		(EPNDB)
200	108.0	108.6	121.1	121.6		104.9		109.2
250	105.8	106.4	118.8	119.4		103.7		107.9
315	103.6	104.2	116.5	117.1		102.5		106.6
004	101.3	101.9	114.1	114.7		101.2		105.2
200	0.66	9.66	111.7	112.3		6.66	100.9	103.8
630	1.96	97.2	109.1	109.7		98.6		102.2
900	94.5	94.8	106.5	107.1		97.1		100.6
1000	91.7	92.3	2	104.3		95.6	96	98.8
1250	89.1	89.7	100.8	101.3		0.46	95.	6.96
1600	86.4	87.0	2	98.2		92.3	93.	2.46
2000	83.6	84.2	;	6.46			91.	95.4
2500	80.7	81.3		91.4		88.6	89.	0.06
3150	77.7	78.2	87.3	87.9		86.6	87.6	97.4
0004	74.5	75.0	3	84.2		;	85.	4.48
5000	71.2	71.5		9008		5	82.	81.9
6300	67.7	68.0	9	76.7		6	80.	19.0
9000	64.1	64.2	5	72.9			17.	16.0
10000	60.3	60.3		689		74.2		73.0
12500	56.2	56.2	;	2.49		71.1		8.69
16000	52.0	52.0	60.3	60.3		6.79	6.79	4.99
20000	47.5	47.5	2	55.5		64.4		62.6
25.000		0 67	•	20 2		60.7		7 85

** EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

92.3 % RPM 1.75 EPR IRSPEED = 370 KNOTS	59 F	RECOR					- 1000		2002 SCA		A+ 11		• ×	× · · ·	· · · · · · · · · · · · · · · · · · ·	. ×	×	· · · · · · · · · · · · · · · · · · ·	
	- 70% -	•	•				. A+	. A+	 ×.	• • • ×	×					•	•		
		• A+	A+	×	A+ . *	· × · · · · · · ×	×	• ×	 •			• • • • • • • • • • • • • • • • • • • •				12.00 xer 20.00		•	
•	*	•	· · · ·	a	•		•		•	•	•		•	•		× 0. +			
*	٠					0.000							FEBRUARY STATES			= PNLT	ALT		

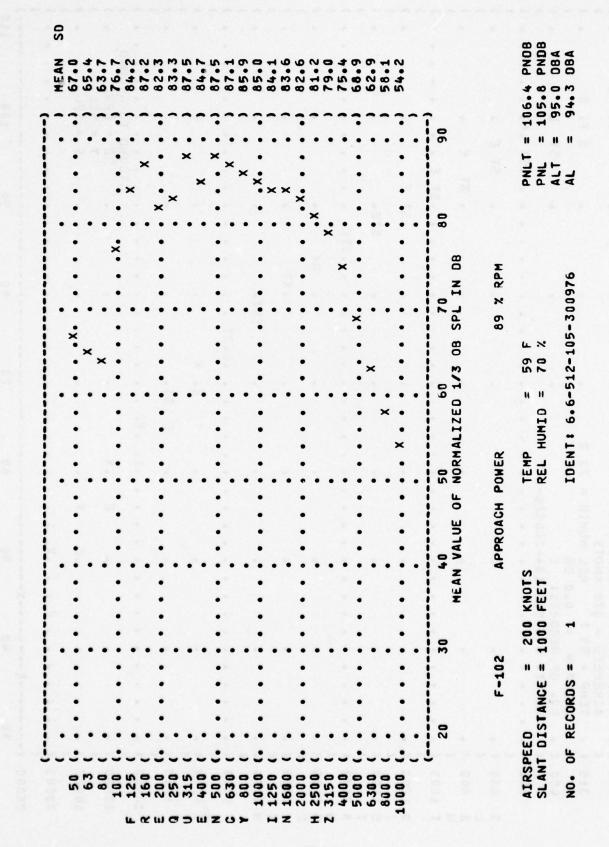
	CPOIL	T-ON	CNING-01-0NINGS	CNIIO-T-O-CA	٥	NOTTAGATION	NO														OMF.	4	MEGA 6.4
					. !															7		,	
AIRCRAFT	F-102	•				OPERA	CRUISE 92.3	POWE	Ξ. Ξ.	1.75	90		E C C	ETEOR	EOROLOGY TEMP RF1 H	¥	" "	59 F			A/C OPS	300E	# 51 # 10
						A I	IRSPE		370	×	15) DE	LTA		0.0	. 0	, ;			30 SI PAGE	L3	,
SLANT DISTANCE (FEET)	17	81	61	50	2	22	23	24	25	FREQ 26	REQUENCY		8AND N	NUMBE 30	31	32	33	34	35	36	37	88	39
200	75	76	76		*	9	87			90	20	70			5.0	2.0	20	92	00	0			2
250	73	2.2	2 2	25	86	89	65	85	90	88	91	92	90	96	90	91	90	90	39	88	85 6	82	80
315	11	72	72	11	94	87	63			98	68	90			88	68	88	88	87	85	2		11
004	69	20	20	75	82	85	81			94	98	88			98	98	96	86	84	83	0		*
200	29	68	68	73	80	82	62			82	84	85			94	48	84	83	82	80	2		9
630	69	99	99	11	11	80	92			86	82	83			82	82	81	81	19	11	m		22
800	63	49	19	69	15	11	73			78	80	81			19	80	13	78	16	4.2	,,		00
1600	61	62	62	99	72	14	20		784	92	7.8	62		11	11	11	92	15	73	2.0	9		40
1250	65	9	65	63	69	7.1	29	89	75	14	92	77	15	25	22	14	73	72	7.0	99	62	95	14
1630	25	25	99	66	65	68	49			72	14	14		72	72	72	20	69	99	61	2		39
2000	24	53	25	52	61	49	9		68	69	7.1	72		69	69	69	29	69	61	96	+		63
2500	20	64	48	51	25	66	25			99	69	20		29	99	65	63	61	96	20	4		1
3150	94	45	43	94	25	22	20			62	65	29		49	63	29	66	96	51	43	9		2
0004	45	04	38	41	14	64	45			25	. 29	63		9	66	58	55	51	++	34	9	6	
2000	37	35	33	36	42	**	40			51	25	66		25	55	53	64	**	36	54	15		
6300	32	31	28	31	37	39	35			94	53	55		53	51	45	43	37	27	12	0		
8600	53	28	56	53	35	37	32			43	20	21		48	46	45	36	28	16				
10000	27	56	54	27	32	34	30		37	0+	9+	14		43	24	35	28	18	2				
12500	52	54	22	54	30	32	27		34	36	745	43		37	33	56	17	S					
16000	23	22	19	22	27	53	54		30	32	38	38		30	52	16	S						
20000	21	19	17	19	54	56	21	20	56	28	33	32	27	22	15	t							
25000	4	11	11	11	22	23	17		22	22	27	35		12	~								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1 ** BAND WHICH DETERMINES THE TONE CORRECTION (C).

GROUND-T	GROUND-TO-GROUND P	ROP					OMEGA 6.6
AIRCRAFT: F-102		CRUISE (CRUISE)	-	EPR	DROLOGY: TEMP = REL HUMID =	59 F)	A/C CODE: 512 OPS CODE: 104 PROFILE VER: A
		(AIRSPEE	D = 370 KNOTS	OTS)	DELTA N = 0.0 08		PAGE M3
SLANT DISTANCE	¥.	AL T**	PNL	PNLT**	SEL	SELT**	EPNL **
(FEET)	(DBA)	(084)	(PN08)	(PNDB)	(80)	(00)	(EPNDB)
200	103.0	103.7	116.0	116.8	6.66	101.0	104.3
250	100.8	101.6	113.8	114.5	7.86	69.6	103.0
315	98.6	99•3	1111.5	112.2	97.5	98.7	101.7
004	96.3	97.1	109.1	109.8	8.96	97.4	100.4
200	0.46	94.8	106.6	107.4	6.46	96.1	98.9
630	•	45.4	104.0	134.8	93.5	7.46	97.5
800	89.5	89.9	101.3	102.1	92.1	93.3	92.6
1000	86.7	87.4	7.86	99.2	9.06	91.7	93.7
1250	84.0	84.8	95.3	96.1	68.9	90.1	91.6
1600	81.3	82.0	92.0	92.7	87.2	88.3	89.2
2000	78.4	79.2	88.3	89.1	85.3	86.5	96.6
2500	75.4	76.1	84.5	85.3	83.3	84.4	83.8
3150	72.1	72.8	80.5	81.2	6008	82.1	80.7
0004	68.4	69.0	15.9	76.5	78.3	79.2	77.0
5000	64.2	2.49	71.1	71.6	75.1	75.8	72.9
6300		60.1	0.99	66.3	71.7	72.1	68.5
9000	55.5	55.7	61.5	61.7	4.89	68.6	6.49
10000	50.9	6.05	56.7	56.7	8+49	3	60.8
12500	45.9	45.9	51.1	51.1	60.8	:	56.2
16000	40.5	40.5	44.8	44.8	56.4	56.4	6.05
20000		34.5	37.0	37.0	51.4	;	44.1
2000		0 00	000	000	C U J	u	12 4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

250	1 . 92	Ž "	1.75 370 KNOTS	,		٠		• A•	•	
315	. TEN	IP = 59 F	0.0 08	ID = 70 %		•		• *	۵ •	
004	I DE	OF RECORDS:	107	300976-A	•	•	¥	•	<u>a</u>	
200	•	: : :			•	•	. A+.	× · · · ·	• • • • • • • • • • • • • • • • • • • •	-
630	•	•	0.00			•	*	•	in	
800		•		١.	•	A.		4.		
1000		:			•	. ×.			•	
1250	•	•	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A 40	. A.	•	4		7.50	
1600				٠	. A+	•	<u>a</u>			
2000	•	•			A+	d. *		•		
2500	٠	٠	•	•	A+	· ×		•	8	
3150		•	•	. A+	a	•		•		
0000	•	•	•	A+.	• •	•				
2000	•	•	4	4	•	•	:	•	:	
6300	•	•	×	×		•				
8000	•	•	× .		•	•				
10000		× · · ·	· · · · · · · ·			•				1971
12500		ו ×	1 100 M T M 10 M 10 M		•	•		ekooki	- "	_
16000	×			•	٠	•		• • •	= PNL = ALT	
20000	•	:						•	= AL	200
25000	0.7									



	AIR-	10-6	AIR-TO-GROUND PRO	D PRO	0	A	110N														OMEGA	3 A 6	OMEGA 6.6	
AIRCRAFT	F-102	2				OPER A	I A G H	1 T 0	POWE RPH		KNOTS	13113		E E	TEOROLOGY TEMP REL F	- 5 6	100	59	# X	1	PROF.	CODE CODE FILE SEP 7	2 TH	112 05
SLANT DISTANCE (FEET)	17	18	19	20	22	22	23	5.4	55	FRE 26	QUENCY 27 26	CY 8A	AND 29	NUMBE	31	32	33	36	35	36	37	80 19	68	3
200	81 79	72	78	91	98	101	95	96	102	96	102	102	101	100	100	100	66	96	98	96	91	88	88	91
315	77	22	72	85	94	95	93	95	98	93	8 9	86	95	96	93	93	93	94	93	91	8 8 5	79	82	808
200	73	71	202	83	90	93	88	89	46	91	* 0	36	86	95	91	91	96	68	8 9	85	80	22	12	75
900	69	67	99	13	86	89	0 0	8 2	90	87	0	68	8 8	87	87	86	8 2	9 6	85	262	730	99	66	62
1000	67	69	99	11	84	87	82		88	85	88	87		85	94	84		81	62	75	69	63	28	54
1250	63	63	9 69	73	80	8 8 8	280	81	8 2	83	83	85	8 4	83	82	81	80	22	72	71	64	51	51	33
2000	61	29	28	11	78	81	92		81	28	81	80		11	92	22		7.1	29	61	53	43	32	19
2500	59	57	56	89	76	22	12		19	79	78	78		22	73	22		67	62	52	948	34	20	~
0004	55	53	21	40	72	1	69		1.	2.2	73	22		69	99	9		26	20	39	28	101		
2000	53	51	64	62	69	72	29		72	99	20	69		65	9	29		20	45	53	16			
8000	48	14	42	28	65	67	62		99	65	19	99		61 56	52	124		33	32	16	2			
10000	9+	45	43	22	9	9	9	9	63	29	09	28		51	94	41		22	^					
12500	1 2	45	40 %	53	22	9 9	25	57	9 6	2,0	200	1 24	4 4	45	39	35	23	6						
20002	10	38	32	4	52	57	20	20	25	17	17	45		62	21	, 6								
26000	11				-	-						-												

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1 * BAND WHICH DETERMINES THE TONE CORRECTION (C).

	0000 00000						~	
-OI-WIT	AIR-IO-GROOND PROP	LACATION						UMECA D.D
AIRCRAFT: F-102		FIONS PROACH	POWER RPM	222	METEOROLOGY 8 TEMP REL HU	# 01M	59 F)	A/C CODE: 512 OPS CODE: 105 PROFILE VER:
		(AIRSPEED	= 200 KNOTS	15	DELTA N =	0.0 08		30 SEP 76 PAGE I4
SLANT DISTANCE	¥.	ALT**	PNL	PNLT**		SEL	SELT**	EPNL **
(FEET)	(08A)	(DBA)	(PN 08)	(PNDB)		(08)	(08)	(EPNOB)
200	110.2	110.9	123.0	123.6		107.7	108.8	112.3
250	108.1	108.7	120.7	121.4		106.6	107.7	1111.1
315	105.9	106.6	118.4	119.1		105.4	106.5	109.8
004	103.7	104.3	116.1	116.7		104.2	105.3	108.4
200	101.4	102.1	113.7	114.3		102.9	104.0	107.0
630	99.1	8.66	1111.1	111.8		101.6	102.7	105.5
800	1.96	4.76	108.5	109.5		100.2	101.3	103.9
1600	94.3	95.0	145.8	106.4		98.8	6.66	102.1
1250	91.8	95.5	102.8	103.5		97.3	98.4	100.2
1600	89.2	99.9	8.66	100.4		1.56	96.8	98.1
2000	86.5	87.2	9.96	97.3		0.46	95.1	0.96
2500	83.7	94.4	93.5	94.2		92.2	93.3	93.9
3150	80.8	81.5	7.06	91.1		90.3	91.4	91.8
0004	77.8	78.3	87.2	87.7		88.2	89.1	89.3
2000	74.6	75.0	83.8			86.1	86.7	86.7
6300	71.2	71.5	80.3	80.5		83.7	84.2	84.0
8000	67.7	67.8	16.7	76.8		81.2	81.4	81.1
10000	0.49	0.49	72.9	72.9		78.5	78.5	78.2
12500	60.1	60.1	689	68.9		75.6	75.6	75.1
16000	629	699	9.49	9.49		72.4	72.4	71.8
20000	51.6	51.6	59.9	59.9		69.1	69.1	68.2

+ EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1 ++ BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	89 % RPM	NA CACA	TO ME		•	1. 1.	ST .E	Part I
315 (TEMP = 59	F REL HUMID	2 0 2 0				ST E	
000	NO. OF RE	CORDS 1	76-4	•	•	•	ST E.	
200 (:	•	ST	. E	
630 (•	•	٠	. ST E	E	
800 (•	•	•.	•	•,	ST E	•	
1000 (•	•	ST E .		
1250 (•	٠	٠	ST E	•	
1600 (٠	•	•	٠	STE .	•	
2000 (•		•		STE	•	
2500 (•	•		. STE	•	•	•
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AIRCRAFT	F-102	2				OPER	PPRO 89	APPROACH 8	D ME	œ				ETEOROLOGY TEMP REL H	ZOLO TEM	G Y & HUMI	" " 2	20	u. %		A/C OPS PROF	000 1000 1000	E 51 E 10 VER 1	12 05
						4	IRSP	EE 0 3	= 20(TONN 0	210		0	DELTA	II Z	0.0	0 08				PAGE	L.	٥.	
SLANT DISTANCE (FEET)	17	18	19	20	12	22	23	54	55	FREG 26	QUENCY 27 28		AND 29	NUMBE 30	31 31	32	33	34	35	36	37	38	39	9
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200	10	17	73	96	93	96	95	6	16	76	26	26	96	95	20	95	16	16	93	91	98	83	83	æ
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000	2 8	20 9	200	2 8	0 K	2 4	0 4	7 8	108	96	100	2 4) a	2 4	9 9	0 4	0 4	9 4	9 8	20 00	2 4	* t	200	
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1000	62	9	66	70	11	794	75	16	82	80	83	82	81	80	62	62	18	16	74	20	49	58	53	4
1250	09	58	99	29	14	92	7.1	73	62	78	96	80	62	7.8	11	92	15	73	20	99	59	52	94	40
1600	58	55	55	49	7.0	73	68	69	92	75	78	78	92	25	14	73	72	70	29	62	24	94	37	~
2000	55	52	64	09	29	69	49	9	73	73	91	25	14	72	7.1	7.0	89	99	62	96	48	38	27	-
2500	51	48	1,1	96	62	65	60	61	69	69	73	73	7.1	20	89	29	65	62	22	20	41	59	15	
3150	47	43	04	51	25	9	52	96	49	65	20	20	99	29	65	63	61	25	51	43	33	18	0	
4000	43	38	34	45	25	24	64	20	29	9	99	99	69	63	61	59	96	51	45	34	23	2		
2000	38	33	30	41	14	64	44	45	53	25	62	62	61	09	25	24	51	45	37	54	11			
6300	33	59	52	36	745	11	39	04	14	64	25	58	25	96	53	64	**	37	27	11				
8660	36	27	23	34	40	45	37	38	*	94	24	24	53	21	14	43	37	28	16					
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12500	56	22	18	53	35	37	31		38	04	94	94	43	70	34	27	18	t						
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25000	10				-	-	20 245																	

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

GROUND-T	GROUND-TO-GROUND P	ROPAGATION					•	OMEGA 6.6
AIRCRAFT: F-102		(OPERATION:	ATION: PPROACH POWER 89 % RPM		METEOROLOGY TEMP REL H	Y: = 5 HUMIO = 7	9 F)	A/C CODE: 512 OPS CODE: 105 PROFILE VER: A
		(AIRSPEE	D = 200 KNOTS) ST(DELTA N =	0.0 08	^^	30 SEP 76 PAGE M4
SLANT DISTANCE	Ą	ALTON	P NF	PNLT**		SEL	SELTO	EPNL**
(FEET)	(DBA)	(DBA)	(PNDB)	(PN08)		(08)	(00)	(EPNOB)
200	105.2	105.9	118.0	118.6		102.7	103.8	107.3
250	103.1	103.7	115.7	116.3		101.6	102.6	106.0
315	100.9	101.5	113.4	114.0		100.4	101.5	104.7
00+	7.86	99.3	111.1	111.7		89.5	100.5	103.4
200	4.96	97.0	108.6	109.2		97.9	0.66	101.9
630	94.1	2.46	ė	106.0		9.96	91.6	100.3
800	91.7	92.3	103.3	103.9		95.2	96.3	98.6
1000	89.2	6.68	1004	141-1		93.7	94.8	96.8
1250	86.7		97.3	98.0		92.2		
1600	84.0	84.6	0.46	94.6		90.6	91.5	92.3
2000	81.2	81.8	90.5	91.2		88.7	89.8	89.8
2500	78.2	78.8	87.0	87.6		86.7	87.8	87.3
3150	74.9	75.6	83.0	83.6		94.4	85.5	84.3
0004	71.3	71.8	7.87	79.2		81.8	82.6	80.8
2000	67.2	67.5	74.0	74.3		78.7	79.3	76.8
6300	62.7	65.9	689	69.1		75.2	75.6	72.5
8000	58.5	58.7	64.5	9.49		72.0	72.2	6.89
10000	54.0	54.0	59.8	59.8		68.5	68.5	65.0
12500	49.1	49.1	24.7	54.7		9.49	9.49	61.0
16000	43.7	43.7	49.2	49.2		60.2	60.2	56.4
20000	37.8	37.8	45.5	45.5		55.3	55.3	2005
00000				•				1.7 6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

ATRSPEED = 200 KNOTS TEMP = 59 FEL HUMID = 70 X NO. OF RECORDS 1 IDENT: 6.6-512-105-300976-A X	AIRSPEED = 200 KNOTS TEMP = 59 F REL HUMID = 70 % OELTA = 6.0	250 (. 89	% RPM	PRUACH	TOMER				• A •		×
DELTA N = 0.0 08 NO. OF RECORDS: 1 IDENT: 6.6-512-105-300976-A NO. OF RECORDS: 1 IDENT: 6.6-512-105-300976-A NO. OF RECORDS: 1 IDENT: 6.6-512-105-300976-A NO. OF RECORDS: 1 NO. OF RECORDS: 1 NO. OF RECORDS: 1 NO. OF RECORDS: 1 NO. OF NO	DELTA N = 0.0 DB NO. OF RECORDS: 1 IDENT: 6.6-512-105-300976-A X X X X X X X X X X X X X X X X X X X		- 200	KNOTS RFI HIMT	20						
IDENT: 6-6-512-105-30976-A IDENT: 6-6-512-105-30976-A A+	NO. OF RECORDS: 1 IDENT: 6.6-512-105-300976-A		- 0.0	08						1	
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F-102	AIRSPEED	֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֟֝֟֝֟֝֟֓֓֓֟֟֓֓֓֟֟֓	NO. OF R	•			•			•				•			•			•	
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AIRCRAFT AIRCRAFT AIRCRAFT														AIRCRAFT
F-102 F-102 F-102						PAGE	166-171 172-177 178-183 184-189		Э		ш		A 0 1 0 4 0 4 0 4 0 4 0 4 0 4 0 4 0 4 0 4	F-102 F-102
AIRCRAFT AIRCRAFT		10 BY		IONS				RE PROVIDED:	REQUENCY ANCE FROM SOUR		SOUND LEVEL 250 FEET FROM SOURCE		E B A S E ,	AIRCRAFT
F-102 F-102		PRODUCED ON THE GROUND	2 AIRCRAFT	DURING GROUND RUN-UP OPERATIONS	TESI 74-512-019 AIRCRAFT CODE: 512 PROFILE VERSION: A			R EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED	RMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY NORMALIZED SPL AT 250 FEET ISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE			15 APR 76	L RESEARC AIR FORC	F-102 F-102
AIRCRAFT AIRCRAFT		NOISE PROD	F-102	DURING GRO	AIRCR PROFI		PM	SETTING, THE	ALIZED DATA AS A FUNCTION ON NORMALIZED SPL AT 250 FEET E LEVELS AS A FUNCTION OF A	FERCEIVED NOISE LEVEL TONE-CORRECTED, PERCEIVED NOIS A-WEIGHTED OVERALL SOUND LEVEL	CTED, A-WEIGH S A FUNCTION		T E R D I C A N N N N N N N N N N N N N N N N N N	AIRCRAFT
F 1102						POWER SETTING	53% RPM 70% RPM	FOR EACH POWER	NORMALIZED DATA AS A NORMALIZED SPL AT NOISE LEVELS AS A FUN	FERCEIVED TONE-CORRE A-WEIGHTED	TONE-CORRECTED, A-WEIGHTED OVERALL NOISE LEVELS AS A FUNCTION OF ANGLE AT		EROSPACE RIGHT - PAT	F-162
AIRCRAFT AIRCRAFT AIRCRAFT													43	AIRCHAFT
F-102 F-102														F-102 F-102

1/3 01ST	1/3 OCTAVE DISTANCE =	BANG 250	FEET		SURE LEVEL	(08)										DENTIF OMEGA TEST 7	ICATION: 8.2 4-512-019	.019	
NOISE SOURCE/SUBJECT F-102 AIRCRAFT ENG. J57-P-23 GROUND RUNUP	SOURCE/SUBJECT 2 AIRCRAFT JS7-P-23 IND RUNUP	_		OPERA IDL SIN SAH	ERATION IDLE, 5 SINGLE ESTIMATE SAME AS	TION: E, 53% RPM SLE ENGINE IMATEO NOISE E AS F-1000	•	LEVELS		METE BA BA DELT	ETEOROLOGY: TEMP BAR PRESS REL HUMID	671 SS = 2 ID = 0	9.92 70 0 08	H N N	1	KUN 01 AIRCRAFT OPERATION PROFILE VE 15 APR 76	FT CC ION CC E VERS 76	CODE 51.	12 1013 A
BAND CENTER Freq (HZ)	0	16	20	30	7	5.0	99	A O Y	ANGLE (DEGR 90	EES)	110	120	130	140	150	160 1	170	180
20	999	624	62<	684	62 <	634	9	62	>49	>49	49	63	99	99	99	69	89	63	67
63				684	62 <	634	>69	>49	>+9	>49	>59	>69	89	6.8	68	69	>99	614	99
9.0			29	684	95	63	65	69	49	49	99	99	7.0	20	69	69	49	*09	9
707				99	69	2.0	72	11	20	20	7.1	73	92	92	14	73	69	284	63
125	29			68	99	62	69	69	69	89	20	72	23	73	72	2	634	574	624
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315	90			68	69	69	202	69	202	11	73	22	75	92	7.1	65	534	514	57
904	69			7.1	71	69	72	72	73	72	52	15	77	92	72	99	51	>64	26
200	69			14	72	2.0	73	7.1	72	72	14	73	11	73	7.1	65	20	*84	55
630	68			69	69	29	29	29	19	69	7.1	72	71	72	69	9	84	*94	24
800	69			72	68	69	29	99	99	29	89	89	72	69	69	79	84	454	51
900	68			89	29	7.1	62	49	63	69	99	20	72	69	68	65	64	43	14
1250	29			7.1	29	7.8	68	49	9	40	65	99	73	89	69	49	51	*	46
1600	*2			99	29	61	40	66	66	61	62	63	72	29	65	63	14	0.4	9
2,00	22			20	11	61	69	63	49	9	69	62	69	69	63	62	84	4 1	45
2500	92			92	11	7.1	72	69	99	99	7.1	69	14	69	99	89	25	94	22
3156	73			15	11	20	29	+9	63	69	69	99	72	29	69	9	20	43	40
7000	73			75	69	7.1	6.8	61	19	49	65	99	69	49	65	63	20	43	43
2006	17			29	99	63	65	60	00	62	63	69	99	49	49	63	20	43	45
6300	99	29		68	63	61	62	58	96	61	61	9	29	62	63	63	64	24	7
8000	69	40		62	29	79	69	96	26	58	00	61	49	61	9	66	9*	39	38
9000	0.9			66	99	24	25	25	53	20	25	09	62	66	29	25	45	36	37
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XXX = EXTRAPOLATED OR INTERPOLATED SPL

(TABLE!	PERCEI AS A F	PERCEIVED NOISE	SE L	LEVEL (P	(PNDB) AND DIS		FROM SC	SOURCE) IDENTI) OMEGA) TEST		TION8	
(NOISE SOURCE/SUBJECT: F-102 AIRCRAFT ENG. JS7-P-23 GROUND RUNUP	URCE/SL JS7-P-	IRCRAF 123	_=		OPERATIONS IDLE, SINGLE ESTIMA SAME A	ATION: IDLE, 53% RPM SINGLE ENGINE ESTIMATED NOI SAME AS F-100	ATION: 10LE, 53% RPM SINGLE ENGINE ESTIMATED NOISE SAME AS F-1000	SE LEVELS	ELS		HETEOROLOGY S TEMP BAR PRES REL HUMI	PRES HUMI	= 59 S = 29.92 D = 70	9 F 2 IN HG 2 %	9	PROFE	AIRCRAIN OI AIRCRAION CODE OPERAION CODE PROFILE VERSION 15 APR 76 PAGE D1	CODE	512 01013
(DISTANCE (FEET)	•	97	20	30	3	50	0.9	7.0	ANGLE 80		COEGREES)	110	120	130	140	150	160	170	180
244	9.66	10101	100.3		99.3	4.96	96.5	93.7	92.7	93.3	96.2	96.1	100.1	4.96	94.2	93.4	79.5	73.4	6.62
(250	97.6			97.4	97.1	94.1	94.3	91.5	90.4	91.0	94.0	93.8	97.9	94.2	91.9	91.1	77.2	71.1	77.6
(315	95.3		1.56	95.	8 ** 6	1.16	92.0	89.2	48.1	88.7	91.7	91.5	92.6	91.9	89.5	88.8	24.8	68.7	75.3
00+)	32.9			92.	95.4	99.5	89.0	86.8	85.7	86.3	89.3	89.1	93.2	89.5	87.0	86.4	72.3	66.3	72.9
005)	90.3		90.8	.06	89.9	96.6	87.1	84.3	83,3	83.8	86.8	86.6	2.06	87.0	84.5	83.8	69.8	63.7	10.4
630	87.7	89.0	88.2		87.3	84.0	84.5	81.7	99.6	81.1	34.5	84.0	88.1	84.4	81.9	81.2	67.0	60.8	67.7
008)	6 ** 9	80.3	49.4	84.8	84.5	81.4	81.7	19.0	6.22	78.4	91.4	81.2	85.3	81.7	79.1	78.4	2.49	21.1	6.49
•																			
10.00	82.0	63.3		81.	91.6	78.7	8.82	76.1	75.0	15.4	78.5	78.3	85.4	78.8	76.1	15.4	61.0	24.4	61.9
1250	78.8	83.2		78.	78.5	15.8	15.7	73.0	72.1	72.3	12.4	75.5	79.3	15.8	72.9	72.2	27.4	20.6	58.5
1600	15.4	70.8		75.	75.1	72.7	72.3	9.69	69.1	69.2	72.0	72.2	15.9	72.9	8.69	68.8	53.5	2.94	24.7
0 5030	71.6	73.0		7.1.	71.4	69.3	9.89	62.6	6.59	999	68.6	69.0	72.3	69.7	66.5	65.0	48.8	41.5	50.6
1 2530	67.5	69.9	68.1	67.	67.3	65.7	4.49	61.7	6119	62.0	9.49	65.0	68.3	65.7	65.5	9.09	43.5	35.1	45.4
31.00	62.8	64.3		62.	62.7	61.8	8.65	57.1	57.4	57.8	60.3	60.9	64.1	61.3	58.0	55.8	36.5	27.7	39.5
0004	57.8	59.1	58.5	57.	51.5	57.3	24.5	55.2	55.5	52.9	55.5	52.5	9.65	56.2	53.2	50.0	28.3	17.6	32.2
0005	52.6	52.9	52.1	51.4	51.3	52.4	6.84	46.6	47.2	47.6	50.5	8.64	54.4	50.6	47.3	43.0	15.5	7.4	25.2
6310	45.7	45.7	45.4		43.9	47.0	42.8	40.3	40.8	41.3	44.3	43.8	48.9	44.0	40.8	36.1	2.8		9.1
0008	38.1	38.9	39.4	39.7	38.2	6.04	37.7	35.1	35.7	36.2	39.5	38.4	43.8	39.5	35.7	30.0			
10000	3.05	32.3	33.1	33.3	31.5	33.7	30.6	28.7	29.6	30.0	13.2	33.3	38.1	33.6	29.1	21.0			4000
125.10	19.5	23.0		26.6	23.4	24.9	24.6	21.9	23.2	23.6	27.2	27.0	32.3	27.9	21.0	8.6			
15000	7.7			17.1	12.1	8.6	15.2	10.7	13.7	13.9	19.2	17.2	25.0	18.0	10.4				
20000			4.6	7.2			2			4	7.7	7.4	14.8	8					
(25300													4.6						
•																			

	AS A	AS A FUNCTION OF		ANGLE A	AND DIS	AND DISTANCE FROM SOURCE	FROM S	SOURCE) OMEGA	OMEGA 8.2 TEST 74-512-019	2-019	
	JS7-P	SE SOURCE/SUBJECT: F-102 AIRCRAFT ENG. JS7-P-23 GROUND RUNUP	-		OPER	RATION: 13LE, 53% RPH SINGLE ENGINE ESTIMATED NOISE SAME AS F-100D	53% RPH E ENGINE NTED NOI	•	LEVELS		METEDROLOGYS TEMP BAR PRES REL HUMI		\$ = 29.92 0 = 70 0.0 DB	9 F 2 IN HG		AIRCRAF OPERATI PROFILE 15 APR	RAFI REE	CODE 5 N CODE 0 VERSION	512 01013
DISTANCE (FEET)		10	20	30	3	50	6.0	7.0	ANGLE 80		(DEGREES) 90 100	110	120	130	140	150	160	170	180
200	100.8	102.3	101.8	101.	101.4	-	98.3	95.4	93.8	4.46	97.3		101.5	97.1	6.46	95.5	10	7.4.7	83.1
250	98.6	100.1	99.5	98.9	99.1	98.2	96.1	93.2	91.5	92.1	95.1	95.2	99.3	6.46	95.6	93.2		72.4	80.8
400	93.9		24.0	96	94.46		91.4	88.5	86.8	87.4	90.06	90.5	946	96.0	87.7	88.4	0 M	57.5	76.1
200	91.3	95.8	92.3	91.	91.9		88.9	96.0	84.4	84.9	87.9	88.0	92.1	87.7	85.2	85.9		6.49	73.7
630	88.7		89.7	.68	89.3		86.3	83.4	81.7	82.2	85.3	85.4	89.5	85.1	82.6	83.2	4	52.1	71.0
900	85.9	87.5	86.9	86.	86.6		83.5	80.7	19.0	19.5	82.5	82.6	86.7	82.3	8.62	4 . 0 8	~	9.69	68.2
1006	83.6		84.0	83.	83.7		80.6	77.8	76.1	76.5	79.6	79.7	83.8	79.4	8.92	77.5		9.59	65.1
1250	79.8		80.8	80.1	80.5	6.62	77.5	7.4.7	73.2	73.4	76.5	16.6	80.7	76.5	73.6	74.3	58.4	51.8	61.7
1600	76.4		77.4	76.	77.2		74.1	71.3	70.2	70.3	73.1	73.5	77.3	73.5	70.5	70.8	2	47.5	58.0
2000	72.6		73.7	73.	73.4		70.4	67.6	67.0	67.1	69.7	70.4	73.7	70.4	67.2	67.0		45.8	53.9
2500	68.5		9.69	68.	9.69		5.99	63.4	63.0	63.1	65.7	4.99	69.7	4.99	63.2	62.7	5	36.3	48.7
3150	63.8		65.0	.49	6 4.8		61.6	54.9	58.5	58.9	61.5	61.9	65.5	62.0	58.7	57.8	5	29.0	42.5
0004	53.6		58.5	58.	59.1		6.49	53.5	53.4	53.8	56.4	9.95	2.09	2.95	53.7	51.7	-	9.81	34.8
2000	52.6	53.6	53.0	52.	55.5	6.45	50.0	47.6	47.8	48.2	6.05	50.7	55.3	51.0	47.7	2.44	-	8.2	24.2
6300	46.1	46.2	46.0	45.	44.7		43.5	41.0	41.2	41.8	44.7	44.3	49.5	44.8	41.1	37.0	3.2		10.4
8000	38.3		39.7	40.	38.6	41.7	38.0	35.5	35.9	36.4	39.4	38.7	44.1	39.6	35.8	30.4			
13000	33.6		33.1	33.	31.5		30.6	28.7	29.6	30.0	33.2	33.0	38.1	33.6	29.1	21.0			
12500	19.5		24.8	26.	23.4		54.6	21.9	23.2	23.6	27.2	27.0	32.3	27.9	21.0	9.8			
16000	7.7	10.9	14.7	17.1	15.1		15.2	10.7	13.7	13.9	19.2	17.2	25.0	18.0	10.4				
2000			4.6	7.	6.		5.9		4.3	4.3	7.7	1.4	14.8	8.2					
25030																			

	AS A F	AS A FUNCTION OF		ANGLE AN	AND DISTANCE		FROM S	SOURCE) OME	OMEGA 8.2 TEST 74-512-019	610-2	
NOISE SOU F-102 ENG. GROUN	JST-P-	ISE SOURCE/SUGJECT: F-102 ENG. J57-P-23 GROUND RUNUP			OPERATIONS IDLE, SINGLE ESTIMA SAME A	ATION: JDLE, 53% SINGLE ENG ESTIMATED SAME AS F-	ATION: 1DLE, 53% RPM SINGLE ENGINE ESTIMATED NOISE SAME AS F-1000	1	LEVELS		METEOROLOGYS TEMP BAR PRES REL HUMI	PRESS HUMID	= 59.92 = 29.92 = 70	2 IN HG		PROF	AIRCRAFT OPERATION PROFILE VEI 15 APR 76 PAGE F1	CODE 9	DE 512) DE 01013) ION A)
DISTANCE	•	10	20	30	9	5.6	0.9	7.0	ANGLE	•	(DEGREES) 90 100	11.0	120	130	140	150	160	170	180
200	86.0		86.0	85.6	84.5	84.2	81.7	79.0	78.7	79.3	81.8	82.1	85.7	82.4	19.9	78.0		58.6	64.4
315	81.5	84.7	81.5	81.1	8 0 0 0	82.1	79.5	76.9	76.6	77.2	7.67	73.7	81.3	78.1	75.5	73.5		56.5	64.1
004	79.1		79.1	78.7	77.7	17.6	75.3	72.5	72.3	72.8	75.3	75.5	79.1	75.9	73.3	71.2		52.0	57.
200	7.97		1.91	76.3	75.3	75.3	72.7	70.2	70.0	16.5	73.0	73.3	76.8	73.7	71.0	68.8		1.64	55.1
6.30	74.2	72.4	74.2	73.8	72.9	73.0	57.8	65.5	65.4	65.9	58.3	68.6	74.4	71.4	68.6	66.4	6.64	44.0	53.3
													,						
1000	000	200	6.80	400	01.0	56.1	2000	63.0	93.0	65.4	62.4	1 9 2 7	66.5	1.00	63.1	5010	7.74	4.24	
16 00	65.8	63.7	63.1	62.6	61.8	62.8	59.8	57.8	57.9	58.3	60.0	6.09	64.2	61.5	58.5	55.7		36.9	43.
2000	59.7	4.09	60.0	58.5	50.0	6.65	56.9	55.0	55.3	55.6	57.9	58.2	61.5	58.8	55.7	52.7		34.0	40.1
2500	56.3	6.95	9.95	56.2	55.5	56.9	53.7	51.9	52.5	55.5	54.8	55.1	58.3	55.6	52.7	9.64		30.8	36.6
3150	55.5	53.1	55.9	9.25	51.5	53.6	50.1	48.4	48.7	49.1	51.3	51.7	54.9	55.5	49.3	46.1		27.3	33.5
0004	49.5	49.1	0.64	48.8	47.5	50.1	7.94	44.6	44.8	45.4	4.7.4	47.9	51.1	48.4	45.5	45.4		23.4	29.3
2700	***	44.6	44.5	44.5	43.0	46.1	41.8	40.3	41.5	41.2	43.1	43.7	6.94	44.1	41.4	38.3		19.5	25.1
9300	39.1	39.8	39.8	40.0	38.3	41.8	37.3	35.8	36.1	30.7	38.6	39.3	45.5	39.6	37.0	33.8		14.8	20.5
0000	34.4	35.4	35.4	36.0	34.1	37.2	33.3	32.1	32.4	33.0	35.0	35.5	38.5	35.8	33.1	29.7		10.9	16.
10000	29.4	33.7	33.9	31.6	29.7	32.1	29.5	28.0	28.5	29.0	31.1	31.4	34.3	31.7	28.9	25.2	10.4	6.9	12.8
12500	24.3	25.8	26.1	56.9	25.0	56.4	24.7	23.7	24.2	24.7	8.92	56.9	29.7	27.3	24.4	5002	5.9	5.5	8.5
16000	18.6	50.5	50.9	21.8	20.0	20.3	19.9	18.9	19.6	19.9	22.1	22.1	24.8	22.5	19.5	15.3	1.3		3.5
20002	13.0	14.6	15.3	16.2	14.5	13.9	14.7	13.7	14.4	14.7	17.0	16.8	19.5	17.3	14.3	8.6			

	AS A SA	FUNCTION OF	N 0F	ANGLE A	AND DIS	DISTANCE	FROM S	SOURCE) OMEGA	54 8.2 T 74-51	A 8.2 74-512-019	
NOISE SOURCE/SUBJECT: F-102 AIKCRAF ENG. JS7-P-23 GROUND RUNUP	E SOURCE/SUB F-102 AI ENG. JS7-P-2 GROUND RUNUP	FE SOURCE/SUBJECT: FE 102 AIRCRAFT ENG. J57-P-23 GROUND RUNUP	_=		OPER	OPERATIONS IDLES SINGLE ESTIMAT	RATION: IDLE, 53% RPM SINGLE ENGINE ESTIMATED NOISE SAME AS F-1000	SE LEV	LEVELS		METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	PRESS HUNID	= 59.92 = 29.92 = 70	9 F 2 IN HG 0 %	.9	PROFILE PAGE	CRAFT RATIO FILE APR 7	CODE	512 01013
DISTANCE	•	10	20	30	9	5.0	0.9	7.0	ANGLE		(DEGREES) 90 100	110	120	130	140	150	160	170	180
200	87.0		87.5	87.	86.6		83.5	80.7	79.8	4.18	83.0	83.4	87.1	83.1	9009	80.1	65.1	6.65	67.6
250	8		85.3	84.8	84.3	86.2	81.3	78.6	77.7	78.3	80.8	81.3	6.48	80.9	78.4	17.8	65.9	57.7	65.5
400	8.1.1		80.7	80.	79.8		76.8	74.2	73.4	73.9	76.6	76.9	80.5	76.6	74.0	73.3	58.3	53.1	61.2
200	7.77	78.8	78.2	77.	77.4		74.5	71.9	71.1	71.6	74.1	74.7	78.2	74.47	71.7	70.9	56.0	51.0	59.0
630	15.2		75.8	75.	6.42		72.1	9.69	68.8	69.3	71.8	72.3	75.8	72.1	69.3	68.4	53.5	48.6	56.6
870	15.6	73.6	73.2	72.5	72.3		9.69	67.2	9.90	6.99	4.69	20.0	73.4	2.69	6.99	6.59	6.05	7.94	24.5
1000	69.8	73.9	70.5	6.9.4	9.69		67.0	64.7	64.1	54.5	66.9		70.9	67.3	4-4	6.3.3	48.2	43.6	51.7
1250	67.6		67.0	67.	66.8		94.49	62.1	61.6	62.0	64.4		68.3	64.8	61.8	60.6	45.4	6.04	64
1600	63.9		9.49		63.8	6.99	61.6	59.5	59.0	29.4	61.7	62.3	65.6	62.1	59.5	57.7	42.5	38.1	46.2
2000	60.7		61.5	60.	60.7		58.7	56.7	56.4	56.7	99.0		65.9	59.4	56.4	54.8	39.4	35.2	43.3
2500	57.3		58.1	57.	57.3		52.5	53.6	53.3	53.6	55.9		2.65	56.3	53.4	51.6	36.0	32.0	40.1
3150	53.5		54.5	54.0	53.6		51.9	50.1	49.8	50.5	52.4		56.3	52.8	50.0	48.2	32.4	28.5	36.5
0004	49.3		59.5	.64	49.1		47.6	46.0	1.54	46.3	48.3		52.2	6.84	46.1	44.0	28.3	54.4	31.9
5000	44.6	45.3	45.5	45.	44.2		45.9	41.3	41.2	41.8	43.8		47.7	44.5	41.8	39.5	24.0	20.0	56.9
6300	39.5	40.3	4.0.4	40.	39.1		38.0	36.5	36.5	37.2	39.1		43.0	39.9	37.2	34.6	19.3	15.3	21.8
8000	34.6	35.6	35.7	36.2	34.5		33.7	32.4	32.0	33.3.	35.2	35.8	38.8	36.0	33.2	30.1	15.0	11.2	17.4
10000	29.4	30.7	30.9	31.	29.7		29.5	28.0	28.5	29.0	31.1	31.4	34.3	31.7	28.9	25.2	10.4	6.9	12.8
12500	24.3		26.1	26.	25.0		24.7	23.7	24.2	24.7	20.8	26.9	29.7	27.3	24.4	20.5	5.9	2.5	8.5
16000	18.8	20.5	20.9	21.8	20.0	20.3	19.9	18.9	19.6	19.9	22.1	22.1	24.8	22.5	19.5	15.3	1.3		3.9
20000	13.0		15.3	16.	14.5		14.7	13.7	14.4	14.7	17.0	16.8	19.5	17.3	14.3	9.8			
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SE SOURCE/SU GROUND RUNU 10 C C C C C C C C C C C C C C C C C C C			A	CE =		250	FEET	_																										-	TEST		4-51	12-	019	
100	018	F-102 ENG. JS7 GROUND R	S T SUNO	133 133 133 133 133 133 133 133 133 133	AFT.					OPE	SESSE	A TIGHT	AAES	E B B B B B B B B B B B B B B B B B B B	PNOU	SE	Ä	KE L	v,			ž ö	ETE.	REPR		ME SY :	000	29.	92	FHX				200000	PE PE	PELLE	1 E E E E E	888	10 N	512 010 A
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DIS	DISTANCE =	250	FEET													TEST	74-512	-016	
NOISE SOURCE/SUBJE F-102 AIRCRA ENG. J57-P-23 GROUND RUNUP	104	=-		O PER SIN	RATION NGINE NGINE STIMAT	F P S I	70% ESE L 00	RPH EVELS	20000	E E E E E E E E E E E E E E E E E E E	ETEOROLOGY: TEMP BAR PRESS REL HUMID	1 11 11 0	59.92 70 70	E N X	1	AIRCRAFT OPERATION PROFILE V 15 APR 76	w	CODE G	512 01021 A
BAND CENTER FREG (HZ)	9	10	20	30	3	50	3	ANGL	we	OEGRE	EES)	110	120	130	140	150	160	170	180
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200	250	**	20	*0	60	0 0	200	90	9 0	0 0	0.7	2,2	2,2	14	0 0	200	200	2.	200
90	63		65	67	29	0 0	72	202	2 2	70	12	12	12	22	7 8	5.2	12	2 9	2 4
100	68	29	69	69	68	11	22	52	75	1.4	25	202	28	62	80	78	15	999	624
125	69	20	20	7.0	20	73	11	11	92	15	92	11	62	81	81	11	11	249	60
160	7.1	73	72	72	73	14	8.2	61	8.2	78	80	79	80	81	81	15	68	62<	58<
200	69	69	20	69	20	72	92	92	92	92	11	77	7.8	11	11	69	9	264	264
250	29	68	20	69	7.0	72	14	15	14	15	92	16	11	92	14	65	624	574	55
315	68	69	69	20	11	73	52	42	14	72	11	92	80	4	15	49	66	254	53
400	7.1	73	73	15	92	92	78	7.8	62	15	19	78	80	18	14	49	28	534	514
200	17	12	14	52	2	92	28	62	62	52	80	78	29	14	72	65	22	514	×64
630	9 6	2 %	11	11	2:	21	25	2.	2	92	12	2:	00 0	2;	20	62	200	T .	× 1.5
1000	77	12	27	2:	25	* "	200	t :	120	2:	22	12	12	5,	9 9	0	20	2 4	424
1250	25	76	75	73	72	77	2.2	2.2	72	4 4	10	22	11	1 5	200	200	200	1	1 1
600	15	72	202	99	29	69	29	99	89	29	29	69	4.2	68	65	61	53	46	43
2000	7.4	7.4	73	32	72	72	1.2	69	89	92	89	89	7.0	69	49	9	24	94	43
2500	81	83	83	62	80	81	80	15	73	29	7.0	29	29	99	63	28	55	84	44
3150	11	62	7.8	92	11	11	92	73	7.1	99	7.0	29	69	69	63	58	53	94	45
0004	95	83	81	18	7.8	81	22	11	77	14	81	16	81	92	7.1	63	56	55	20
2000	92	22	15	73	73	7.1	73	69	20	29	20	29	72	7.1	29	9	55	45	41
6300	73	22	14	72	73	7.1	12	68	69	99	99	29	69	29	99	9	20	**	0,
000	7.1	0.2	10	69	69	2.0	69	29	69	29	69	29	7.0	99	65	61	24	8 4	**
0000	69	99	99	10	69	69	+9	49	+9	62	99	99	29	99	63	28	20	*	39
OVERALL	*	9	9		:	9	6			,			;		6	,	;	i	1

NOISE SOU F-102	AS A F	FUNCTION	90	ANGLE	AND DISTANCE		FROM S	SOURCE								OMEGA	OMEGA 8.2 TEST 74-512-0	A 8.2 74-512-019	
	JS7-P	SE SOURCE/SUBJECT: F-102 AIRCRAFT ENG. JS7-P-23 GROUND RUNUP	- F		OPER	OPERATION: ENSINE RUNUP, 70 SINGLE ENGINE ESTIMATED NOISE SAME AS F-1000	RUNUP, ENGINE TED NOIS S F-1000	70% R SE LEV	K RPM LEVELS	2222	METEOROLOGY B TEMP BAR PRES REL HUMI DELTA N =		= 59 0 = 29.92 0 = 70	9 × 0.	(3	PROFES	AIRCRAFT OPERATION PROFILE VE 15 APR 76	CODE	512 01021 A
DISTANCE	•	3	20	36	9	50	9	20	ANGLE		(DEGREES) 90 100	110	120	130	140	150	160	170	180
200	104.9	105.7	105.1	102.7	103.3	104.7	103.7	162.0	102.3	99.8	104.0	101.2	104.9	101.8	98.5	92.4	87.1	80.1	77.2
	100.2	100.9	100.5	98	98.7		99.5	- 10	94.6		4		100.2		93.9	87.7	82.2	75.3	72.3
004	97.6	98.4	98.1	95.	96.3		96.8		95.0				7.76		91.4	85.1	1.61	72.7	69.8
200	95.0	95.7	92.0		93.8	94.8	94.3	92.2	92.4		94.1	91.4	95.1	91.9	88.7	82.5	77.0	70.0	67.1
800	89.5	94.2	90.1	87.	88.4		88.9	86.4	86.6	84.2			89.3		82.9	76.7	71.2	64.2	61.0
1000	86.3	87.2	87.2	84.7	2	6 44	9.0	82.2	7 28	0.18		42.4	86.1	82.0	70.7	77.6	6.8.0	8.09	57.E
1250	83.0	84.0	84.		82.3	83.1	82.8	80.2	80.0	77.9	81.	79.0	82.7	19.4	_	70.1	64.5	56.9	53.5
1500	19.6		90.5	78.	78.8	19.6	19.4	76.8	76.3	74.9		75.5	78.9	75.7		66.7	60.5	52.4	48.9
2000	12.6			74.	75.1	75.8	75.7	73.1	73.1	71.7	73.5	72.3	75.0	72.4		63.0	56.2	48.1	44.3
2500	711.7	72.6		70.	71.0	711.7	71.5	69.5	9.69	68.2	69.6	68.6	71.1	68.4		58.9	51.1	42.7	38.6
3150	67.1			69	999	67.0	6.99	65.3	65.4	64.1	65.7	4.49	6.99	63.8	_	54.3	45.2	35.3	30.1
9004	61.8			60	61.1	61.8	61.6	60.7	60.8	9.69	61.1	59.8	62.3	29.0	_	48.7	38.7	56.4	17.9
2006	55.9			54.	55.1	55.9	929	929	25.7	24.4	56.0	54.8	57.3	53.7	_	42.3	29.0	11.4	5.7
63.0	50.3	49.8	1.64	47.	48.9	1.64	8.64	50.0	50.5	0.64	50.5	7.64	51.9	47.9	_	35.3	16.7		
8000	44.0	45.8	45.4	45.	44.0	43.7	44.5	45.1	45.4	44.4	46.0	44.6	47.3	45.9	_	29.0	4.5		
10000	36.9			36.	38.3		38.8	39.3	0.04	38.9			41.8	36.7	32.3	20.5			
12500	27.2			29.	32.1		32.7	33.7	34.0	33.3		33.	36.1	30.5	26.1	9.5			
16000	15.4		2		25.4		26.1	27.5	27.8	26.8		26.	29.8	22.4	16.3				
20000		7.7	8.1	6	13.9	11.3	15.7	18.2	18.3	18.1	19.1	16.2	19.5	10.8	6.5				
25000					5.4		5.4	6.7	6.7	6.7		9	9.3						

TABLES	TONE	TONE-CORRECTED, PERCEI	TED, P	. >	ED NOIS	E LEVE	NOISE LEVEL (PNDB)	8)								DENTI	IDENTIFICATION	IONS	
C AS A FUNCTIO	AS A	AS A FUNCTION OF ANGLE	NO NO		AND DISTANCE	DISTANCE	FROM S	SOURCE								TEST	. ~ 6	2-019	•
(NOISE SOURCE/SUBJECT: F-102 AIRCRAFT ENG. J57-P-23 GROUND RUNUP	E SOURCE/SUBJE F-102 AIR ENG. J57-P-23 GROUND RUNUP	UBJECT AIRCRA -23 UP	. t		OPER	, , ,	ATION: ENGINE RUNUP, 70% SINGLE ENGINE ESTIMATED NOISE LE SAME AS F-1000		Z RPM Z RPH LEVELS	20000	METEUROLOGY: TEMP BAR PRES REL HUMI DELTA N =	PRES HUMI	= 59 S = 29.92 D = 70	9 F 2 IN 0 % HG	g	AIRC OPER PROF	AIRCRATT CODE OPERATION CODE PROFILE VERSION 15 APR 76 PAGE E2	CODE 5	512 01021 N A)
(DISTANCE	-	10	20	36	3	3	6.0	7.0	ANGLE 80		(DEGREES) 90 100	110	120	130	140	150	160	170	180
500	106.7		107.3	164.	105.1						107.6				100.4	93.8	89.3	82.4	80.0
315	104.4	105.3	105.0	-	102.9			101.6	102.1	97.6	105.2	101.8	105.4	102.1	98.1	91.4	86.9	80.0	75.1
00+	99.4	100.4	100.3	97.	98.1	99.8	98.6				100.3			97.2	93.2	86.5	81.9	75.0	72.6)
005	96.8			94.	95.6						7.16			9.46	90.6	83.8	79.2	72.3	69.69
630	93.9			95.	93.0	94.3						10		91.8	87.8	81.0	16.4	69.5	67.0)
999	91.0	92.2	92.3	68	90.5		30.7	88.3	88.0	86.7	91.8		92.1	88.8	8.4.8	78.0	73.4	4.99	63.9
1000	88.1	89.2	4.68	86.	87.3	88.5	87.8	85.3	85.6	83.5	88.6	85.4	88.9	85.5	81.6	6.42	70.2	63.1	60.3)
1250	84.8				84.1		9.48	82.1	82.1	80.4	85.1	81.9	85.4	82.1	78.2	71.4	2.99	59.5	56.3 1
1600	81.4			79.	9.00		81.2	78.7	78.5	77.4	81.2	78.5	81.6	78.4	6.42	68.0	62.7	24.7	51.7)
2000	17.6	78.8		76.	16.9		77.5	75.0	75.5	74.2	77.0	75.2	77.8	75.1	71.5	64.4	58.4	50.3	47.1)
0052)	73.5		74.8	7.1.	72.8		73.4	71.4	71.7	70.7	73.5	71.5	73.8	71.1	4.19	60.3	53.3	45.0	41.4 1
3150	69.9			67.	68.2	4.69	2.89	67.2	67.5	9.99	69.5	67.3	9.69	66.5	62.7	55.6	47.5	37.6	33.0)
9004	63.5			61.	959		63.1	65.3	65.5	61.5	64.6	65.2	64.5	61.1	57.3	49.8	40.4	28.5	20.5
2000	57.0		58.	55.	2095		2001	299	57.0	55.9	58.1	56.5	29.0	55.3	51.4	43.1	30.3	15.8	7.4
63.0	51.1	9006	50.5	48.	49.7		50.0	50.8	51.0	20.0	51.9	20.4	53.0	0.64	44.8	35.8	17.6		•
0008	4 . 4 4		45.	45.	4	44.2	6.44	45.5	45.8	6.44	1.6.7	45.5	47.8	43.5	39.5	29.3	4.9		-
	11.0	7.55	75 1	3.5	7 0 7		90	70 7		0	•	0		7 27	1 22				
200												000			200				
1621	2000			6.67	26.1	31.5	35.0	23.0	34.0	5000	5.00	***	20.1	2000	1.07	4.5			•
10000	17.4	19.9	v	71.	4 . 6 7		1.92	51.5	51.8	50.0	4.87	500	29.8	+ . 77	10.3				•
20000		7.7	8.1	5	13.9		15.7	18.2	18.3	18.1	19.1	16.2	19.5	10.8	6.5				_
25000					7.7		2.4	2.6	2.9	6.7	4.6	2.9	9.3						-
																			-

:	** **	STATEMENT OF ANGLE	ED OVERALL SOU	Z	O LEVEL (DBA) And distance	_	FROM SC	SOURCE) IDENTI) OMEGA) TEST	OMEGA 8.2 TEST 74-512-019	10N8	
1017. 1017. 1017. 1017. 1017.	SOURCE SUB- 184 AI	SOURCE/SUBJECT:	_		OPERATIONS ENGINE SINGLE ESTIMA SAME A	ATIONS ENGINE SINGLE ESTIMAT	ATION: ENGINE RUNUP, 70 SINGLE ENGINE ESTIMATED NUISE SAME AS F-1000	F 2	KPM VELS		METEOROLOGYS TEMP BAR PRES REL HUMI	000	= 59.92 = 29.92 = 70	20 F H G	g.	PROFE	ORAFT RATION FILE VE PR 76	CODE CODE RSION	512 01021
SISTANCE OF ECT.	•	97	20	98	5	5.0	9.9	7.0	ANGLE		(DEGREES)	110	120	130	140	150	160	170	180
500	99.0	91.4	90.7	86.3	88.8	96.0	88.5	86.9	87.1	84.9	98.1	85.9	89.5	85.8	82.6	76.8	70.1	63.5	60.6
550	9.00	49.1	88.5	86.1	86.6	87.8	86.3	1.18	84.9	82.7	85.8	83.7	87.3	83.6	4.08		67.9	61.3	58.5
	93.8	9	93.7	41.3	81.9	83.1	81.7	200	80.3	78.3	81.2	79.2	82.8	79.0	75.9	70.1	63.4	56.9	54.0
075	61.3	81.8	81.2	78.9	19.4	80.6	79.3	77.8	77.9	76.0	78.7	76.9	80.4	76.7	73.6	67.8	61.1	54.5	51.7
030	78.7	79.5	78.6	76.3	6.92	78.0	8.92	15.4	15.5	73.6	76.2	14.5	78.0	74.3	71.2	4.59	58.6	52.1	49.3
900	16.0	10.4	15.9	73.6	74.2	75.3	74.3	.2.9	73.1	71.2	73.7	72.1	75.0	71.8	68.7	65.9	56.1	9.64	46.8
10.00	73.2	73.5	73.0	70.8	71.5	72.6	71.6	70.3	70.5	8.89	71.0	69.6	73.0	69.2	66.1	4.03	53.5	47.0	44.2
1250	70.2	70.5	70.0	6.79	68.6	69.5	68.8	67.7	6.70	66.3	68.3	67.0	70.4	999	63.5	57.8	50.7	44.3	41.5
1660	67.1	67.3	600	6 * 4 9	9.59	9.99	6.59	65.0	65.3	63.7	65.5	4.49	1.19	63.8	2.09	55.0	47.7	41.4	38.6
0002	63.9	63.9	63.5	61.7	65.5	63.4	65.9	62.2	62.6	61.1	62.8	61.7	65.0	61.0	6.75	52.1	44.5	38.2	35.5 1
55.00	4.09	60.3	6.65	50.3	59.1	60.0	58.6	59.1	58.5	58.3	2.65	58.7	62.0	6.76	24.7	49.1	41.0	34.8	32.1
13150	56.8	56.5	56.1	24.7	59.5	56.4	55.9	92.6	56.1	55.3	56.3	55.3	28.7	24.5	51.3	12.54	37.3	31.1	28.4)
*300	55.9	55.5	52.0	50.8	51.5	55.5	51.9	51.8	55.4	51.4	52.6	51.7	55.5	20.5	47.5	42.1	33, 3	27.0	24.4)
2000	48.7	49.1	47.6	46.5	47.1	48.3	47.6	47.6	48.3	47.2	48.4	47.5	51.1	46.6	43.3	38.1	29.0	22.7	20.1
6300	44.1	43.5	45.3	41.9	45.5	43.7	43.0	43.2	43.9	45.9	44.0	43.2	46.8	42.1	38.9	33.7	24.4	18.1	15.5
0008	39.4	38.9	38.4	37.8	38.5	39.4	39.0	39.5	40.5	39.3	40.4	39.4	45.8	38.4	35.1	29.7	50.6	14.5	11.9
_																			•
10000	34.1	34.1	33.7	33.3	34.3	34.8	34.9	35.5	36, 1	35.4	36.4	35.2	38.5	34.3	31.1	25.3	16.7	10.7	8.2
12530	58.4	29.0	28.8	28.6	23.8	59.9	30.5	31.2	31.7	31.1	32.1	30.8	33.8	29.8	26.7	20.6	12.8	6.9	4.3)
16000	22.3	23.4	23.4	23.5	54.9	54.6	25.7	56.4	8 .92	56.4	27.3	55.9	28.7	25.0	22.1	15.8	8.9	3.0	4.
20000	15.7	17.4	17.6	17.9	19.5	18.9	50.4	21.2	24.5	21.1	22.1	50.6	23.2	19.8	17.1	10.9	5.5		_
1 25000	8.8	11.0	11.2	11.8	13.5	12.8	14.6	15.4	15.6	15.2	16.2	14.8	17.1	14.2	11.9	6.2	1.8		•
																			-

TABLES	TONE-C	TONE-CORRECTED,		A-WEIGHT	HTED OVE	OVERALL S	SOUND LEVEL		(DBA)							DENTI	IDENTIFICATION	IONS	
	AS A F	FUNCTION OF		ANGLE A	AND DIS	DISTANCE	FROM SOURCE	DURCE								TEST	. ~ 6	2-019	
(NOISE SOURCE/SUBJECT: F-102 AIRCRAFT ENG. J57-P-23 GROUND RUNUP	URCE/SU 2 A JS7-P- ND RUNU	IBJECT I			OPERATIONS ENGINE SINGLE ESTIMA SAME A	ATIONS ENGINE SINGLE ESTIMAT	ATION: ENGINE RUNUP, 70 SINGLE ENGINE ESTIMATED NOISE SAME AS F-1000	L N	RPM VELS	2000	METEOROLOGY: TEMP BAR PRESS REL HUMIO	PRESS HUMID	= 59 =29.92 = 70	FIX N H		AIRCRAFT OPERATIO PROFILE 15 APR 7	ATICE RICE G2	CODE 5 IN CODE 0 VERSION	512 01021 A)
(DISTANCE	0	1.0	20	30	0,4	50	09	7.0	ANGLE 80	28	EGREES)	110	120	130	140	150	160	17.0	180
500	95.6	93.4	95.9		9006	95.4	90.6	68.89	89.2	87.4	91.6	88.8	92.3		S	_	2		63.5)
550	90.4	91.1	90.7	87.8	88.4	90.1	88.2	86.6	87.0	85.2	89.3	86.6	90.1			15.9		63.6	61.3)
315	86.0	86.3	85.0		83.7	85.4	83.6	82.4	84. F	300	967.0	40.4			. «	_ 10	n 4		56.8
200	83.1	83.8	83.4	99.6	81.2	82.9	81.2	79.7	80.1	78.5	82.3	79.8		4.62	2 10		, m		54.5
530	80.5	61.2	80.8		78.7	90.4	78.7	17.3	77.7	76.1	19.8	77.4							52.1
008	17.8	18.4	78.1		16.0	7.77	76.1	74.8	75.5	73.7	77.2	15.0			9		m		49.6
1000	75.0	75.5	75.2	72.5	73.3	6.47	73.4	72.3	72.7	71.3	74.6	72.5	80			61.8			47.0 1
1250	72.1	72.5	72.2	9.69	10.4	72.0	9.02	9.69	70.1	68.8	71.8	20.0	73.2	69.2	4.59	-			44.3)
1600	68.8	69.5	69.1		4.19	6.89	67.7	6.99	67.4	66.2	69.1	67.3	S		9		•		41.4)
2000	65.7	69.69	1.59		64.3	65.8	2.49	64.1	2.49	63.6	66.3	2.49	8		80				38.3)
2500	62.2	65.3	62.1		60.0	65.4	61.4	61.0	61.7	60.8	63.2	9.19	8		9	•	_		35.0)
3150	58.6	58.5	58.3		57.3	58.8	21.15	57.6	58.3	51.5	59.8	58.3	2		2	_			31.3 1
0004	54.3	54.0	53.8		55.9	24.4	53.4	53.4	54.1	53.4	55.4	24.0	+			~	_		26.7
2000	49.8	49.3	49.9		48.2	1.64	48.7	48.8	9.64	48.7	50.5	49.3	80		+	6			21.7
6300	44.8	2.44	43.7	45.6	43.2	1.44	43.7	44.0	44.8	43.9	42.4	44.3	6		9	m			16.7
8000	39.7	39.3	36.8		38.9	39.9	39.4	39.9	40.0	39.8	41.1	39.9	+			6	_		12.5)
								1			;								
10000	34.1	34.1	33.7		34.3	34.8	34.9	35.5	36.1	35.4	36.4	35.2					19.1	10.7	2.8
12500	28.4	29.0	28.8		29.8	59.9	30.5	31.2	31.7	31.1	32.1	30.8					15.8	6.9	4.3
16300	22.3	53.4	23.4		54.9	54.6	25.7	26.4	26.8	56.4	27.3	52.9					8.9	3.0	4.
20000	15.7	17.4	17.6	17.9	19.5	18.9	50.4	21.2	21.5	21.1	22.1	50.6	23.2	19.8	17.1	10.9	2.5		•
55000	8.8	11.0	11.2		13.5	15.8	14.6	15.4	15.6	15.2	16.2	14.8					1.8		-
																			•

	OIS	DISTANCE =	250 FEET	133									-	TEST	TEST 74-512-019	-019
NOISE S F-1 ENG GRO	SOURC 102 5. JS		4FT		OPERATIONS ENGINE SINGLE ESTIMA SAME A	- 0,	RUNUP, 70% RPM ENGINE TED NOISE LÉVELS S F-1000	****	METEOROLO TEMP BAR P REL H DELTA N =	RESSUMIO	= 59.92 = 70 = 70	u H X		AIRCE OPERI PROFI 15 AP	AIRCRAFT CODE 5 OPERATION CODE 0 PROFIL ** VERSION 15 APR 76	ODE 512 ODE 61021 SION A
					P=PNLT			A=AL		1		T=ALT				
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	140	•••					• •				. A					
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	1/3 OCTAVE DISTANCE =	SOUND BAND 250	FEET	ESSURE	RE LEVEL	9	6									DENTIF OMEGA TEST	FICATION 8.2 74-512-0	10N8 2-020	
NOISE SO F-102 ENG. J GROUND	ISE SOURCE/SUBJECT F-102 ENG. J57-P-23 GROUND RUNUP	Ēr		0	PERATION: MILITARY POWER, SINGLE ENGINE ESTIMATED NOISE SAME AS F-100D	ENGI ENGI	WER, NE OISE	97% RPI LEVELS	E (0	METEC TEP BAR DELTA	COROLOGY EMP AR PRESS EL HUMID	11110	59.92 70 70	FIX NN H		AIRCRAFT OPERATION PROFILE VE 04 MAY 76 PAGE C1	AFT TION LE VE V 76	CODE CODE RSION	512 01004 A
BAND CENTER FREQ (HZ)	TER J	07	20	30	9	20	09	7 0 A	NGLE 80	(DEGRE	EES)	110	120	130	140	150	>160	>170	×180
50	62	78	80	90	82	82	82	85	86	85	87	91	16		102	103	46	90	83
63	19		82	80	94	9.4	85	28	98	06	68	93	96		106	106	66	95	98
90	83		83	85	94	9.4	87	88	83	89	91	96	101	107	109	108	102	95	88
100	85		98	86	98	87	88	06	16	93	96	66	104	111	112	109	102	96	89
125	88		68	88	88	06	91	95	46	96	96	104	110	115	116	112	105	98	95
160	68		96	96	91	95	93	46	95	46	100	107	112	118	118	112	105	66	92
200	68	96	36	90	06	36	93	25	96	86	100	105	109	116	118	111	105	96	91
720	99		9 0	5	06	06	91	93	66	96	100	104	108	114	116	111	104	16	91
315	16		26	35	36	35	93	95	96	100	102	106	111	114	117	111	104	86	91
1	*		26	46	93	16	60	16	100	101	104	109	113	115	115	108	102	95	88
200	36		50	93	26	95	93	96	26	100	103	100	110	112	112	104	97	06	100
200	600	0 0	0 0	26	5	16	2 0	96	7 6	100	701	102	100	111	711	103	26	36	9 6
300	000		00	7 6	16	200	200	9 0	200	101	100	100	103	100	100	200	76	9 0	2 6
1000	20		0 0	200	3 6	200	200	20	200	100	101	101	101	101	500	100	2 0	90	9 6
1606	0 10		b 6	200	2 4	0 0	9.0	0 0	80	100	90	101	104	100	100	90	9 0	0 0	7.6
2330	96		87	86	88	8 8	92	95	86	100	96	100	103	101	103	96	68	8 2	76
2500	68		68	68	68	68	93	96	98	100	98	66	100	66	102	95	89	82	75
3150	9.4		00	86	86	98	90	93	96	96	96	96	96	96	66	93	86	80	73
9004	83	94	84	98	9.4	98	9.0	93	95	86	96	16	98	96	98	91	85	78	71
5000	81		83	84	83	9 4	68	91	16	96	95	26	96	96	96	68	83	16	69
6300	77		62	96	80	82	87	88	91	16	93	16	96	93	46	87	80	74	67
8000	92		11	78	78	81	85	87	91	93	16	16	93	91	95	85	78	72	69
10000	11		72	14	12	92	80	83	9	99	8 8	93	9.0	88	8 8	81	7.	67	61
		1																	

. SPL DATA MERE EXTRAPOLATED FOR THIS ANGLE.

			AS A FUNCTION OF A	ANGLE A	9	DISTANCE	FROM S	SOURCE) TEST	74-512-02	12-020	
NOISE SO	E SOURCE/SUBJECT! F-102 AIRCRAFT ENG. J57-P-23 GROUND RUNUP	JBJECT I	_ ==		OPER	OPERATION: MILITARY POWER, SINGLE ENGINE ESTIMATED NOISE SAME AS F-1000	ENGINE FLUORE		97% RPM LEVELS		METEOROL TEMP BAR BAR REL DELTA N	EOROLOGY: TEMP BAR PRESS REL HUMID TA N = 0.	= 59.92 = 29.92 = 70	L H X	92	A AIR	AAF ATI AY D	C005 C006 RS10	512 01004 N A
DISTANCE (FEET)	-	97	20	30	9	5.6	0,0	20	ANGL	1	(DEGREES) 90 100	110	120	130	140	150	160	>170	>180
200	114.2			~	115.5	116.	119.2	.0.		126.2		128.2	131.2	-		•	N .		107.9
315	112.0	113.2	116.5	0 0	113.3	113.9	114.7		122.0	124.0	123.7	123.7	129.1		132.3	125.8	119.1	112.5	103.5
904	107.4		107.9	108.9	108.7	109.3	112.4			119.4	119.	121.4	124.7			10	-		101.3
500	105.0	106.1	105.5		106.2	106.9	109.9			116.9		119.1	122.4	m .		m 0	.00	105.8	99.0
900	93.6		100.2	2	101.0	101	104.6	167.0	109.6	111.6	111	114.2	117.6					101.0	94.2
1000	97.0		47.4	98.4	39.5		101.8	104.1	106.3		108.6	1111.6	115.0	_		_	105.2	98.4	91.5
1250	93.9		94.3	95.3	95.1		98.7	101.0	103.7		105.5	108.8	115.3			0	102.3	95.4	88.5
1600	90.6	91.6	6.06	95.2	91.8	95.5	95.3	97.7	100.4		102.4	106.0	109.5			105.9	99.1	92.3	85.4
20.00	87.5		4 4	89.1	4.80	89.3	91.7	94.1	96.8		99.3	102.9	106.5	۰ م		102.9	96.0	89.5	82.2
3150	79.4	79.5	74.9	81.1	84.0	81.2	33.4	85.8	92.9	90.00	41.4	94.9	98.6	0 0	101.6	94.7	87.8	80.9	73.9
0004	74.6		74.0	76.	76.0	76.3	79.2	91.2	84.0	86.1	87.2	90.5	93.9			89.8	82.9	75.9	69.0
5000	69.3		69.1	72.3	71.3	72.4	74.0	76.6	79.2	41.4	82.7	85.9	89.3	-		84.5	77.6	70.6	63.5
63 00	64.2		63.9	67.0	66.3	67.3	9.69	71.6	74.1	76.5	77.8	81.1	84.5			19.4	72.5	65.4	59.5
9000	0.09		2.65	62.7	05.0	63.0	65.1	67.0	69.8	72.0	13.5	6.92	80.3	2		15.6	9.89	61.5	54.0
13030	25.4		200	2995	57.4	28.5	2.09	62.3	65.1	67.1	90	72.5	76.2	78.5	79.5	71.6	64.5	57.2	69.2
16200	20.0		4.30	23.4	25.5	23.5	24.0	2/01	9	61.9	•	0.00		5 ** 5	13.6	61.5	600	1076	**
16300	44.0		43.0	8.74	6.94	47.0	* 6 . 7	51.6	24.5	2000	29.0	65.9	699	9.69	20.5	63.0	55.6	47.8	39.0
00000	300	200	20.00	100	1.0	7.	100	42.0	0.1	20.0	200	21.5	***	•	*	2001	2000	100	200
00003			,	•	1 17	22	7 32	17		1. 2 . 1.			SE. 7		9	200	7 77	200	22

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

			AS A FUNCTION OF A	ANGLE	AND OI	DISTANCE	FROM	SOURCE) TEST	TEST 74-512	12-020	
NOISE SO F-10 ENG. GROU	SE SOURCE/SUBJECT: F-102 AIRCRAFT ENG. J57-P-23 GROUND RUNUP	AIRCRAI	_ -		OPER C	OPERATION: MILITAL SINGLE ESTIMA SAME A	RATION! MILITARY POWER, SINGLE ENGINE ESTIMATED NOISE SAME AS F-1000	. 6 7	7% RPM EVELS		METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	OROLOGY: TEMP BAR PRESS REL HUMID A N = 0	""""	59 F 92 IN 70 %	9	P P R O P E R	CRAFT RATIO FILE MAY 7	CODE N CODE VERSION	512 01004
DISTANCE	9	10	20	30	9	50	9	202	ANGLE	26	(DEGREES) 90 100	110	120	130	140	150	>160	>170	×180
200	115.5	116.9	115.8	115.							126.		131.			127.	121.2	114.6	
315	111.6	112.4	111.3	111.2	111.0	111.7	114.7	117.0	119.7	121.7					130.1		117.0	110.3	
430	108.7			108.							119.		124.			121.	114.8	108.1	
500	106.3	107.6		106.	106.2	106.9	109.9	112.2			114.6	119.1	122.4	124.3	125.7	119.3	112.6	105.8	99.0
900	101.1		101.3	10		101.6	104.	107.0	109.6	1111	111.		117.		121.	114.5	107.8	101.0	
1000	98.2	9.66	98.5				101.8	1.14.1	166.8							112.0	105.2	4.4	9
1250	95.2		95.4		95		96				106.1	108.8	12.	114.4	115.	109.0	102.3	95.4	88
1600	91.9		92.0		91.			1.16			103.0	1.16.0	109.5		112.	105.9	99.1	92.3	85.
2000	88.8		88.4		88.			94.1			6.66	102.9	.90		109.	102.9	96.0	89.5	82.
25.00	84.0		4.40		40		87.6				96.1	99.1	050		105.	99.0	92.1	85.2	78.
0000	7.00		200		9 0			000	000		24.0				101	*	000	300	2 9
5000	70.1	70.0	69.8	72.0	71.3	72.4	74.0	76.6	79.2	81.4	93.0	85.9	68	91.1	92.	84.5	77.6	70.6	63.5
6300	64.7		* * * 0		99			71.	74.1				84.5			79.4	72.5	65.4	58.
8000	60.3	59.8	59.9			63.0			69.8				80.		83.	75.6	68.6	61.5	54.0
13000	55.4	54.7	54.8	58.	57.4		60.2	62.3	65.1	67.1	68.	72.	76.		79.	71.6	64.5	57.2	49.5
12500	50.6		1.64	53.4	55.5	53.2		57.	60.0	61.9	54.5	68.0		74.3	75.2	67.5	60.3	52.7	44
16330	44.6			47.	46.9			51.			59.	62.	99		70.	63.0	55.6	47.8	39.0
20000	38.4	37.7	37.5		40.1		42.7		47.		53.	57.	61.		65.	58.1	50.6	42.0	33.

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

SOURCE/SUBJECT: A IRCRAFT G JS7-P-23 OLNO RUNUP C ESTIMATED NOISE SINGLE ENGINE SINGLE ENGINE C STIMATED NOISE SAME AS F-1000 CE D 10 20 30 40 50 60 7 100.2 100.7 1 00.2 102.5 102.0 102.7 105.5 107 98.0 98.5 98.1 100.4 99.9 100.6 103.3 105 95.9 96.3 95.9 98.2 97.7 98.4 101.1 103 95.9 96.3 95.9 98.2 97.7 98.4 101.1 103 91.4 89.4 89.0 91.5 91.0 91.6 94.2 96 89.1 89.4 89.0 91.5 91.0 91.6 94.2 96 80.8 86.9 46.0 89.2 86.8 89.3 91 80.8 86.9 46.0 89.2 86.8 89.3 91 80.8 86.9 46.1 46.8 86.2 86.8 89.3 91 80.8 81.5 84.2 83.6 84.3 86.7 89 70.0 69.5 75.7 72.0 72.0 72.0 72.0 72.0 72.0 73.0 81.2 83 70.0 69.5 65.7 69.1 68.4 65.2 71.3 73 62.0 61.3 61.5 65.1 64.4 65.1 67.2 69 57.5 56.8 55.1 60.7 56.0 56.8 56.8 65	97% RPM						TESI	TEST 74-512-020	20
STANCE	. LEVELS	METER	METEOROLOGY: TEMP BAR PRESS REL HUMID	SS = 29.92 ID = 70 0.0 08	99 F N 7 C N 7 C	و	AIRCRAFT OPERATION PROFILE OF HAY 7	RUN 01 AIRCRAFT CODE OPERATION CODE PROFILE VERSIO 14 MAY 76 PAGE F1	512 E 01004 ON A
100.2 100.7 100.2 102.5 102.0 102.7 105.5 98.0 98.5 98.1 100.4 99.9 100.6 103.3 95.9 96.2 97.7 96.4 101.1 93.5 96.9 97.7 96.4 101.1 93.6 95.1 60.8 95.5 96.2 96.9 91.4 91.4 91.4 91.6 91.8 91.5 91.6 91.6 91.6 91.6 91.6 91.6 91.6 91.6	ANGLE ANGLE	CDEGR 90	EES) 100 116	120	130	140	150 >1	>160 >170	>180
98.0 98.5 98.1 100.4 99.9 100.6 103.3 95.9 96.3 95.5 96.2 97.7 98.4 101.1 91.4 91.6 95.8 91.7 98.4 101.1 91.4 91.6 91.7 98.4 101.1 91.4 91.6 91.8 91.3 91.3 91.9 96.9 91.4 91.1 91.4 91.6 91.6 91.0 91.6 91.6 91.6 91.6 91.6 91.6 91.6 91.6		112.7	0 115.	7 118.7				-	94.
95.9 96.3 95.9 96.2 97.7 98.4 101.1 93.7 99.0 95.9 96.2 97.7 98.4 101.1 93.6 95.0 95.5 96.2 96.2 97.7 98.4 101.1 93.6 95.0 95.5 96.2 96.9 91.0 91.6 91.0 91.6 91.0 91.6 91.0 91.6 91.0 91.6 94.2 86.8 86.3 87.8 81.8 81.8 81.5 84.2 83.6 84.3 86.7 75.2 75.1 73.8 81.7 81.0 81.7 84.0 75.5 75.1 75.9 75.0 75.1 75.9 75.0 75.1 75.9 75.0 75.1 75.8 75.0 81.2 85.5 65.5 65.7 69.1 68.4 69.2 71.3 65.5 55.8 57.1 64.4 65.1 67.2 57.5 55.0 55.8 55.8 85.1 66.7 65.1 64.4 65.1 67.2 57.3 57.5 55.8 57.1 66.7 56.0 56.8 57.8 88.8 67.1 67.2 67.3 67.5 55.8 57.1 66.2 65.8 57.1 66.7 65.0 56.8 56.8 56.8 56.8 56.8 56.8 56.8 56.8	5.7 108.5	110.5	8 113.	6 116.6		119.4 1	6		
91.4 91.7 91.4 93.6 93.5 93.6 93.9 91.6 91.6 91.6 91.6 91.6 91.6 91.6 91		108.3	1111	5 114.5					
89.1 89.4 89.1 91.5 91.0 91.6 94.2 86.8 86.8 86.3 84.3 84.4 84.1 46.8 86.2 86.6 89.3 91.8 41.8 81.8 81.5 84.2 83.6 84.3 86.7 79.2 79.1 78.8 81.7 81.0 81.7 84.0 77.5 76.2 76.0 75.9 76.0 75.4 75.0 75.9 76.0 75.3 76.0 75.2 76.0 75.2 76.0 75.2 76.0 75.3 76.0 75.2 76.0 75.3 76.0 75.2 76.0 75.3 76.0 75.2 76.0 75.3 76.0 75.2 76.0 75.2 76.0 75.3 76.0 75.2 76.0 75.3 76.0 75.3 76.0 75.3 76.0 75.3 76.0 75.3 76.0 75.3 76.0 75.3 76.0 75.3 76.0 75.3 76.0 75.3 76.0 75.3 76.0 75.3 76.0 75.3 75.0 75.3 75.3 75.3 75.3 75.3 75.3 75.3 75.3	18.9 101.7	103.7	104.2 107.	110.2				98.9 92.2	85.6
86.8 86.9 d6.6 89.2 83.6 83.3 91.8 84.3 84.4 84.1 d6.8 86.2 86.8 89.3 d1.8 d1.8 d1.8 d1.8 d1.8 d1.8 d1.8 d1.8		101.4	9 104.	8 108.0			m		
84.3 84.4 84.1 86.8 86.2 86.8 89.3 81.8 81.8 81.5 84.2 83.6 84.3 86.7 79.2 79.1 73.8 81.7 81.0 81.7 84.0 770.5 76.2 76.0 770.0 69.5 76.0 770.0 770.0 69.5 69.5 72.7 72.0 770.8 770.9 770.0 60.2 65.6 65.7 69.1 08.4 69.2 71.3 62.6 61.3 61.5 65.1 64.4 65.1 67.2 57.5 56.0 56.8 57.1 60.7 60.0 60.7 62.8 53.6 52.8 53.1 56.7 56.0 56.8 58.8		6.96	5 102.	5 105.7		10	0		
41.8 41.8 81.5 84.2 83.6 84.3 86.7 79.2 79.1 73.8 81.7 81.0 81.7 84.0 770.5 75.2 79.1 73.8 76.0 770.0 73.0 770.0 75.3 76.0 78.2 70.0 69.5 69.5 72.7 72.0 72.8 76.9 76.0 62.0 61.3 61.5 65.1 64.4 65.1 67.2 57.5 56.0 56.8 58.8 58.8 58.1 56.7 56.0 56.8 58.8 58.8 58.1 56.7 56.0 56.8 58.8 58.8	91.6 94.4		-	2 103.4	104.9	106.2	9	6	
79.2 79.1 78.8 81.7 81.0 81.7 84.0 76.5 76.2 70.0 79.0 79.0 81.2 73.4 73.0 72.9 76.0 75.3 79.0 81.2 73.4 69.2 76.0 75.3 76.0 72.8 74.9 66.2 65.6 65.7 69.1 08.4 69.2 71.3 62.6 61.3 61.5 65.1 64.4 65.1 67.2 57.5 56.8 57.1 60.7 60.0 60.7 62.8 57.1 56.7 56.0 56.8 58.8		93.3	34.6 97.7	-		103.6			
76.5 76.2 70.0 79.0 78.3 79.0 81.2 73.4 73.0 72.9 76.0 75.3 76.0 78.2 70.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0		91.1				101.0	2	9	
73.4 73.0 72.9 76.0 75.3 76.0 78.2 70.1 69.2 70.1 65.2 65.6 65.7 69.1 b8.4 69.2 71.3 65.2 65.6 65.7 69.1 b8.4 69.2 71.3 62.6 55.8 57.1 60.7 50.0 65.1 67.2 57.5 55.8 53.1 56.7 56.0 56.8 58.8	13.5 86.2	88.3			-	98.3	2		
70.0 69.5 69.5 72.7 72.0 72.8 74.9 66.2 65.6 65.7 69.1 b8.4 69.2 71.3 62.0 61.3 61.5 65.1 64.4 b5.1 67.2 57.5 56.0 56.8 56.8 58.8 53.1 56.7 56.0 56.8 56.8		85.2	.68 4		34.2	95.2	2	2	
66.2 65.6 65.7 69.1 b8.4 69.2 71.3 62.6 61.3 61.5 65.1 64.4 b5.1 67.2 57.5 56.8 57.1 60.7 60.0 60.7 62.8 53.6 52.8 53.1 56.7 56.0 56.8 58.8		81.9	2 86.		6.06	91.9	9		
62.6 61.3 61.5 65.1 64.4 55.1 67.2 57.5 56.8 57.1 60.7 60.0 60.7 62.8 53.6 52.8 53.1 56.7 56.0 56.8 58.8			6 82.		87.1	88.1	9	6	
57.5 56.8 57.1 60.7 60.0 60.7 62.8 53.6 52.8 53.1 56.7 56.0 56.8 58.8	72.	74.3 7	75.6 78.	7 81.9	83.0	83.9	75.2 6	8.5 61.9	9 55.5
53.6 52.8 53.1 56.7 56.0 56.8 58.8	67.		2 74.	4 77.6		19.5	~		
			2 70.	73.	14.9	75.8		•	
4 51.6 52.4 54.3		61.1	9 66.		70.9	71.7	~		
44.9 44.0 44.3 47.8 46.9 47.7 49.5	51.6 54.1	56.2	58.1 61.	6 6 6 6 6 9	66.5	67.4	59.0	52.3 45.6	39.0
40.0 39.1 39.3 42.6 41.8 42.6 44.2		50.8	0 56.		61.8	9.29	2		
37.0 36.1 36.9 38.5		45.0	2 50.		56.6	57.5	2		
28.8 27.8 27.4 30.9 30.0 30.8 32.2	34.1 36.5	38.6	. 44		51.0	51.9	9		

	AS A	AS A FUNCTION OF		ANGLE A	AND UIS	DISTANCE	FROM S	SOURCE) TEST	TEST 74-512-020	12-020	
NOISE SOURCE/SUBJECT: F-102 AIRCRAF ENG. JS7-P-23 GROUND RUNUP	URCE/S 257-P US RUN	UBJECT 8 AIRCRAF -23 UP	- <u>L</u>		OPER	OPERATION: MILITARY POWER, SINGLE ENGINE ESTIMATED NOISE SAME AS F-1000	ENGINE	ER, 97% ESE LEVE	97% RPM LEVELS	2222	METEOROLOGY TEMP BAR PRE REL HUM	PRESS HUMID	=29°	59 F 92 IN H 70 %	9	PROPER PAGE	AIRCRAFT OPERATION PROFILE VE 04 MAY 76 PAGE G1	CODE	512 01004
DISTANCE (FEET)	9	15	20	36	0,	20	9	20	ANGL		(DEGREES) 90 100	110	120	130	140	150	*160	>170	180
200	101.4	102.1	101.3	102.5	102.0		105.5	107.8	110.7	112.7	113.5	115.7	118.7	120.1		114.0	107.3	100.7	94.0
315	97.1			98	97.7	•	101.1	103.5				111.5					103.2	96.5	89.
004	6 * 6			96	95.5		6.86	101.				109.3				-	10101	94.4	87.1
200	92.7			93.8	93.3		96.6	98	101.7	103.7		107.1	~				98.9	92.2	92.
800	68.6	88.4	97.7		88.6	89.3	91.8			98.9	1001	102.5	105.7	107.2	108.5		94.3	87.7	81.
10.00	85.6	85.9	85.2	86.8	86.2		89.3	91.6	4.46	46.4	97.7	100.2	103.4	184.9	106.2	98.6	91.9	85.3	78.6
1250	83.1		82.	9 40	63.6		86.7	83.0	91.8	93.8	95.2	97.7	101.0		103.6	96.0	89.3	82.7	76.
1500	80.5	80.5		41.	81.0		84.0	86.3	89.1	91.1	95.6	95.2	98.5		101.0	93.3	86.6	6.62	73.
2010	17.8			79.	78.3		81.2	83.5	86.2	88.3	89.9	95.6	6.56		98.3	90.5	83.8	77.1	70.
25.00	74.6		74.0	70.0	75.3	76.0	78.2	90.4	83.2	85.2	96.9	9.69	92.9	2.46	2.56	87.2	80.5	73.8	67.2
0.15	67.2	100		200	1000		5.5	11.11	76.9	20.2	000	900	0.60		91.9	20.0	10.0	2.07	200
2000	62.7			65	64.4		67.2	4.69	72.2	76.3	75.9	78.7	81.9		83.9	75.2	68.5	61.9	55
63.0	50.0			60	60.0		02.8	65.0	67.9	6.69	71.4	74.4	77.6		79.5	7.07	64.0	57.3	50.7
9000	53.9	53.1	53.4	56.	56.0		58.8	60.09	63.6	1.50	67.3	70.5	73.7	74.9	75.8	67.0	4.09	53.7	47.
10000	49.5	49.6	48.9	52.	51.6		54.3	56.4	59.0	61.1	65.9	60.2	69.5	70.9	71.7	63.2	56.5	49.8	43.
12500	6 * 4 4			47.	6.94		49.5	51.6	54.1	55.2	58.1	61.5	6.49	66.5	67.4	59.0	52.3	45.6	39.
16000	40.6		39.3	45.6	41.8	42.6	7.44	46.3	48.7	56.8	53.0	56.4	59.9	61.8	62.6	54.5	47.8	41.2	34.5
20000	34.6			37.	36.1		38.5	40.5	42.9	45.0	47.2	50.8	24.4	56.6	51.5	49.7	43.0	36.4	29.1

SPL DATA WERE EXTRAPOLATED FOR THIS ANSLE.

	4	DISTANCE = 250 FEET) OMEGA 8.2) TEST 74-512-020
NOISE SOURCE/SUBJECT: F-102 AIRCRAFT ENG. J57-P-23 GROUND RUNUP		OPERATION: MILITARY POWER, 9 SINGLE ENGINE ESTIMATED NOISE I SAME AS F-1000	17% APM)	METEOROLOGY: FEMP = 59 F BAR PRESS =29.92 IN HG REL HUMID = 70 % DELTA N = 0.0 DB) RUN 01) AIRCRAFT CODE 512) OPERATION CODE 01064) PROFILE VERSION A) 04 MAY 76
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. SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

) IDENTIFICATION:) OMEGA 8.2) TEST 74-512-020	OLOGY:) AIRCRAFT CODE 512 OLOGY:) AIRCRAFT CODE 512 = 59 F) OPERATION CODE 01003 PRESS = 29.92 IN HG) PROFILE VERSION A HUMID = 70 %) 04 MAY 76 N = 0.0 DB) PAGE C2	110 120 130 140 150 160 >170 >180	106 112 112 111 100 9n	103 109 114 115 112 100 90 80	113 116 116 113 99 89	117 120 118 115 98 88	123 123 121 117 97 87	125 124 122 119 100 90	123 123 122 117 97 87	123 123 121 117 94 84	125 126 123 119 93 83	125 125 121 118 94 84	120 121 117 114 93 83	123 124 120 117 94 84	119 119 115 111 93 83	120 120 114 110 92 82	118 117 112 106 92 82	117 116 110 106 90 80	117 116 111 107 90 80	115 114 108 105 85 75	113 113 105 102 84 74	112 112 105 100 83 73	110 109 103 96 80 70	108 108 101 96 78 68	106 106 99 95 75 65	104 104 97 92 71 61
	METEOROLOGY TEMP BAR PRESS REL HUMIC DELTA N =	DESREES) 90 100	σ	86 96	10	7	10	10	11	10	11	11	11	11	11	11	11	=======================================	11	=	10	10	10	-	10	6
	R)	ANGLE (96 98																						26 06
(00)	ION: RBURNER POWER LE ENGINE MATED NOISE L AS F-1000	20 60		16 16		98	100	101	100	66	103	103	100	102	66	66	46	96	26	95	46	93	91	6	88	9.6
SURE LEVEL	OPERATIONS AFTERBUR SINGLE ESTIMATE SAME AS	30 40	92	93 93	*6	66	96	66	66	96	101	103	66	101	100	66	26	96	96	95	93	92	90	24	85	81
SOUND PRES BAND 250 FEET		20	94	91	93	16	26	96	26	95	97 1	97 1	16	96 1	95	95	69	88	06	91	87	98	94	8	62	76
TAVE CE =	SUBJECT: AIRCRAFT 23 JP	0 10	88		92 92				36 96			86 66			92 91				90 91			84 86	83 84		78 79	1
TABLE: NORM	NOISE SOURCE/SUBJECT: F-102 AIRCRAFT ENG. J57-P-23 GROUND RUNUP	BAND CENTER FREG (HZ)	5.0	63	90	100	125	160	200	550	315	004	200	630	800	1000	1250	1600	2000	2500	3150	9004	2000	6300	8000	10000

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

Figs Source Source Figs Fig	URCE/SUBJECT: JS7-P-23 ND RUNUP 118-0 119-4 1 115-8 117-2 1 115-8 110-3 1 116-3 10-6 1 106-3 107-6 1 106-3 107-6 1 106-3 107-6 1 106-3 107-6 1 106-3 107-6 1	1111 111 111 111 111 111 111 111 111 1	1120 + 0 1 1 1 1 1 1 1 1 1	1110N1 10N1 10N	61NE PONER (GINE PONE) NOISE L-1000 123-9 129-5 127-127-127-127-127-127-127-127-127-127-	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	130.00 130.00 130.00 125.94	12 12 13 13 1	1200 1 1 1 1 1 1 1 1 1	120 08 1139.0 139.0 139.0 139.0 135.0 135.0	130 P P P P P P P P P P P P P P P P P P P	140 140 138 138 136 136	136 136 136 137 123 133 133 133 123 123 123 123 123 123	10 02 CCAFILE V FFILE V HAY 76 E 02 117 0 117 0 1116 7 1105 7 1105 1	CODE CODE CODE CODE 170 170 170 170 170 170 170 170 170 170	01103 01103 180 96.8 97.6 87.6 85.0
113-8 113-114-114-5 120-2 123-1 126-6 123-9 129-7 131-5 134-7 137-1 141-0 144-2 144-3 140-3 136-5 137-0 107-0 115-8 137-1 141-0 144-2 144-3 140-3 136-5 137-0 107-0 115-8 137-3 137-1 141-0 144-2 144-3 146-3 136-5 137-0 107-0 115-2 115-3 114-0 120-3 124-4 127-2 137-5 137-3 137-5 137-3 137-7 137-3 112-7 137-3 137-7 137-3 137-7 137-3 137-7 137-3 137-7 137-3 137-7 137-7 137-3 137-7 137-7 137-7 137-9 137-	118.0 119.4 1 115.8 117.2 1 113.8 117.2 1 111.2 112.7 1 106.3 107.8 1 103.7 105.1 1 101.0 102.3 1	3 3 111 115 3 111 115 111 111 111 111 11	1123 4 1113 6 9 1 1113 6 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0 0 0 0 0 0 0 0	1 11222111	1132		110 141. 138. 136. 134. 131. 129.	120 144.2 142.0 133.7 135.2 135.2	13 14 14 14 14 13 13 13 13 13	140 136 136 133	150 136. 134. 132. 130.	1117.0 1117.0 1112.7 11108.1 1108.1	1007 1007 1007 1007 1007 1007 1007 1007	96.8 94.6 92.3 90.0 87.6
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95.4 96.0 95.2 98.1 100.5 103.2 101.3 106.2 108.2 111.3 113.9 118.1 122.2 122.6 118.6 115.0 94.4 84.0 92.3 92.4 92.0 95.2 98.2 102.7 104.8 107.9 110.6 115.0 119.2 119.7 115.7 112.1 91.2 80.8 92.3 92.4 92.4 93.7 101.0 104.1 106.9 111.7 115.5 115.9 111.9 108.3 87.5 77.1 84.2 84.3 87.6 89.4 98.4 98.4 98.2 101.7 101.0 104.1 111.7 115.5 115.9 110.9 108.3 87.5 77.1 84.2 84.3 87.6 89.4 98.4 98.4 98.2 96.8 100.1 103.9 107.4 107.7 103.6 100.1 79.3 87.5 77.1 77.2 74.6 75.2 78.6 80.4 83.7 78.3 97.4 98.2 97.0 103.9 97.0 107.9 107.9 107.9 100.1 79.3 68.9 77.1 69.1 69.4 70.1 73.6 100.1 73.6 100.1 79.3 68.9 74.2 74.6 75.2 78.6 80.4 83.7 78.5 81.9 85.2 97.8 99.2 102.7 103.6 100.1 79.3 68.9 69.1 69.4 74.6 75.2 78.6 80.8 77.2 80.2 80.2 80.2 80.2 80.2 80.2 80.2 80	95.4 96.0	101.	103.4			4 111.			121.	125.1			117.	97.5	87.1	76.7
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TABLE	NOISE F	DISTANCE (FEET)	2002	315	200	900	1000	1250	20 70	2500	3150	4000	5300	8400		10000	12500	1603	20000	2500

URCE/SUBJECT: URCE/SUBJECT: AIKCRAFT (OPERATION:	URGE/SUBJECT: URGE/SUBJECT: AICGRAFT AICGRAFT SINGLE ENGINE ANG 101-9 102-6 102-4 105-5 108-3 111-3 108-8 114-3 116-2 99-8 100-4 100-3 143-4 106-1 149-1 116-5 118-4 101-9 102-6 102-4 105-5 108-3 111-3 108-8 114-3 116-2 99-8 100-4 100-3 143-4 106-1 149-1 108-7 112-1 114-0 99-8 100-4 100-3 143-4 106-1 149-1 108-7 112-1 114-0 99-8 100-4 100-3 143-4 106-1 149-1 108-7 112-1 114-0 99-8 100-4 100-3 143-4 106-1 100-7 100-7 112-1 114-0 99-8 100-4 100-3 143-4 106-1 100-7 100-7 100-5 99-8 100-4 100-3 143-4 100-7 100-9 100-7 100-7 90-8 100-4 100-3 140-8 100-9 100-7 100-7 100-7 90-8 100-4 100-3 100-7 100-9 100-7 100-7 90-8 100-4 100-7 100-9 100-7 100-7 100-7 90-8 100-4 100-7 100-9 100-7 100-7 100-7 90-8 100-4 100-7 100-9 100-7 100-7 100-7 90-8 100-4 100-7 100-9 100-7 100-7 100-7 90-8 100-4 100-7 100-7 100-7 100-7 90-8 100-4 100-7 100-7 100-7 100-7 90-8 100-4 100-7 100-7 100-7 100-7 90-9 100-4 100-7 100-7 100-7 90-9 100-4 100-7 100-7 100-7 90-9 100-4 100-7 100-7 100-7 90-9 100-4 100-7 100-7 100-7 90-9 100-7 100-7 100-7 90-9 100-7 100-7 100-7 90-9 100-7 100-7 100-7 90-9 100-7 100-7 100-7 90-9 100-7 100-7 100-7 90-9 100-7 100-7 100-7 90-9 100-7 100-7 100-7 90-9 100-7 100-7 100-7 90-9 100-7 100-7 100-7 90-9 100-7 100-7 100-7 90-9 100-7 100-7 100-7 90-9 100-7 100-7 100-7 90-9 100-7 100-7 100-7 90-9 100-7 100-7 100-7 90-9 100-7 100-7 100-7 90-9 100-7 100-7 90-9 100-7 100-7 90-9 100-7 100-7 90-9 100-7 100-7 90-9 100-7 100-7 90-9 100-7 100-7 90-9 100-7 100-7 90-9 100-7 100-7 90-9 100-7 100-7 90-9 100-7 100-7 90-9 100-7 100-7 90-9 100-7	OURCE DE LECATION D'ONEGA 6.2 COURCE
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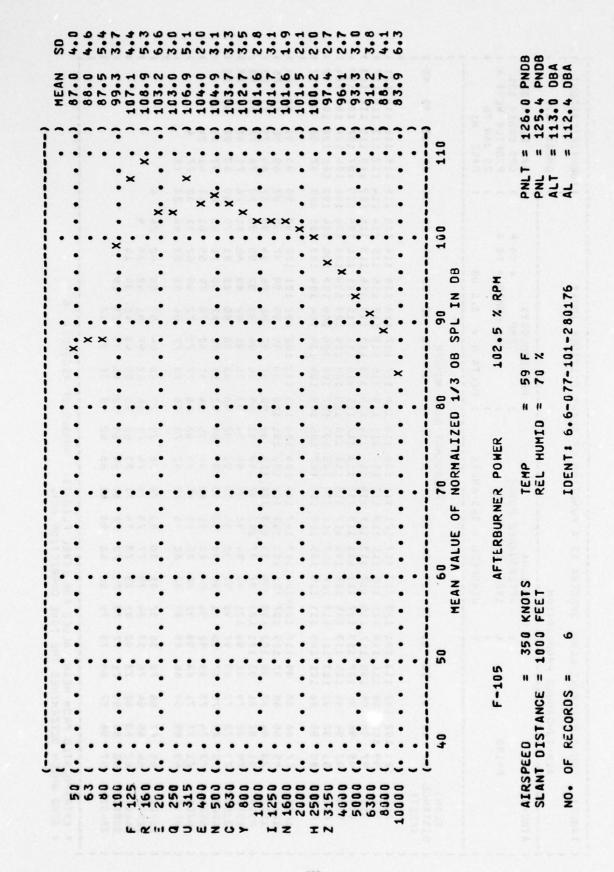
NOISE SOU	-	A FUNCTION OF		ANGLE	AND DI	DISTANCE	FROM	SOURCE) OMEGA		2 12-020	
	E SOURCE/SUB F-102 ENG. J57-P-2 GROUND RUNUP	NOISE SOURCE/SUBJECT: F-102 AIRCRAFT ENG. J57-P-23 GROUND RUNUP	-	\$ 5.33	OPERAT OPERAT SI SSI SA	RATION: AFTERBURNER POWE SINGLE ENGINE ESTIMATED NOISE SAME AS F-1000	ENGINE ENGINE FF-10	POWER E ISE LEV 30	R LEVELS		METEOROLOGY: TEMP BAR PRES REL HUMI	OLOGY: RP PRESS L HUMID	. = 29. 0 = 0.0	59 F 92 IN H 70 %	5	PAGE PAGE	AIRCRAFT CODE OPERATION CODE PROFILE VERSION PAGE G2	Z	512 01003
OISTANGE (FEET)	•	7.0	20	30	3	5.0	00	0.2	ANGLE	•	(DEGREES)	110	120	130	140	150	160	>170	>180
200	105.3	106.5	104.6	108.	110.4			116.5	118.4	121.6		129.6	132.9	133.0	10		103.6	93.6	83.6
250	103.2	10404	102.4	106.	108.3			114.	116.2	119.4		127.	130.8	130.			10105	91.5	81.5
315	101.0		100.3	104.5	106.1		106.7	112.1	114.0	117.3	120.4	125.3	128.6	126.6			99.4	89.4	79.4
200	96.7	97.7	95.9	100	101.7	105.7	102.3	107.	109.5	112.7		120	124.3		120.0	116.6	95.0	85.0	75.0
630	94.4		93.6	97.	99.5		100.0	105.	107.2	110.4	113.7	118.	122.0	N			95.8	85.8	72.8
800	92.1	93.1	91.3	95.	97.1		97.7	102.9	104.8	108.0		116.3	119.7	0	115.6	2.1	5.06	80.5	20.5
1000	89.7	9006	86.9	93.	94.8		95.3	100.5	132, 3	105.5	108.9	113.9	117.4	117.5		109.8	88.1	78.1	68.1
1250	87.2		86.4	90.	92.3		95.8	6.76	1.66	103.0		111.	114.9	-		107.4	85.6	75.6	65.6
1606	84.7	65.3	83.7	88	89.7		90.2	95.3	97.1	100.3	103.9	108.	112.3	112.5	108.2	104.8	83.0	73.0	63.0
2000	82.0	82.0	81.0	85.	87.1		87.6	95.5	94.3	97.5	•	106.2	109.6	109.9		162.2	80.3	70.3	60.3
2500	78.9		78.0	82.	84.1		84.0	83.	91.3	94.5		133.2	106.6	106.9		99.1	77.4	67.4	57.4
3150	15.5		74.7	79.	8008	84.5	81.3	86.	88.0	91.3		100	103,3	9	99.1	8.56	74.2	64.2	54.5
1004	71.4		71.0	75.7	77.2		77.7	82.7	84.4	87.6	91.5	96.	4.66		95.1	91.8	20.6	9.09	50.6
2000	66.9		66.3	71.	73.2		73.6	78.	80.3	83.5		91.8	95.0	N	2.06	87.2	9.99	56.0	46.6
6300	62.1	62.1	62.4	99	68.8	711.7	69.5	74.	75.9	79.1		87.	90.3	0	86.0	82.5	62.2	55.5	42.2
8330	58.1	58.0	59.6	62.7	64.8		65.3	73.	71.7	75.0	79.1	83.0	86.2	86.5	82.1	78.5	58.5	48.2	38.2
13000	53.8	53.0	54.4	58.	69.5	62.8	61.0	65.7	67.3	70.6	7 4.	78.5	81.7	82.1	77.8	74.3	53.9	43.9	33.9
12500	49.5	49.2	49.9	53.	55.8		56.4	60.8	62.4	65.7	69.8	73.9	77.1	77.5	73.4	6.69	49.2	39.5	29.5
16000	44.7	44.4	44.9	48.7	50.6	52.7	51.3	55.5	57.1	4.09			72.1	72.6	68.6	65.2	44.1	34.1	24.1
20000	39.5		39.5	43.	44.9		45.8	1.64	51.3	54.6		63.	2.99	67.2	63.4	6.65	38.6	28.6	18.6
250 30	33.8	33.4	33.6	37.	38.7		39.7	43.4	45.0	48.2	52.1	56.9	60.7	61.3	57.7	54.5	32.6	22.8	12.8

AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATTERSON AFB OHIO F/G 1/2 COMMUNITY NOISE EXPOSURE RESULTING FROM AIRCRAFT OPERATIONS. VO--ETC(U) FEB 78 J D SPEAKMAN, R G POWELL, R A LEE AMRL-TR-73-110-VOL-4 AU-AUDS 702 UNCLASSIFIED NL 3 OF 7 AD A063702

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. SPL DATA MERE EXTRAPOLATED FOR THIS ANGLE.

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AIRCRAFT										≻ 0	AIRCRAFT AIRCRAFT AIRCRAFT
F-105					PAGE	191-199 200-208 209-217 218-226		E,	SELT, EPNL)	A	F-105 F-105
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* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6 ** BAND WHICH DETERMINES THE TONE CORRECTION (C).

AIR-10-6	AIR-TO-GROUND PROP	AGATION						OMEGA 6.6
AIRCRAFT: F-105		(OPERATION: (AFTERBURNER (102.5 % RPM	RNER POWER		METEOROLOGY: TEMP REL HU	GY:	59 F	A/C CODE: 077 OPS CODE: 101 PROFILE VER: 6
		(AIRSPEE	0 = 350 KNOTS	TS	DELTA N =	0.0 08		
SLANT DISTANCE	AL.	ALT**	PNL	PNLT**		SEL	SELT**	EPNL **
(FEET)	(08A)	(08A)	(PN 08)	(PN08)		(08)	(08)	(EPN08)
200	129.3	129.9	143.0	143.7		124.3	125.	128.6
250	127.0	127.6	140.8	141.4		123.0	124.	127.3
315	124.6	125.3	138.4	139.1		121.7	122.	126.0
001	122.2	122.9	136.0	136.6		120.3	121.	124.5
500	119.8	120.4	133.5	134.1		118.9		123.0
800		115.5	128.2	128.8		115.9	116.	119.7
1000	112.4	113.0	125.4	126.0		114.4	115.	117.9
1250	109.8	110.4	122.4	123.0		112.8		115.9
1600	107.1	107.8	119.3	119.9		111.2	112.	113.8
2000	104.4	105.0	116.1	116.7		109.5	110.	111.6
2500	101.6	102.2	112.9	113.6		107.7	108.	109.5
3150	98.7	4.66	109.9	110.5		105.8		107.4
4000	95.8	96.3	106.8	107.3		103.8	104.	105.1
2000	92.7	93.1	103.6	104.0		101.7	102.	102.7
6300	89.5	89.8	100.3	100.5		99.5	•66	100.3
9000	86.2	86.3	6.96	97.0		97.2	97.	7.76
10000	85.8	82.8	93.5	93.5		94.8	94.	95.1
12500	79.2	79.2	0.06	0.06		92.2	92.	95.6
16000	15.4	75.4	86.4	86.4		89.5	89.5	0.06
20000	71.5	71.5	82.6	85.6		86.5	86.	87.2
25000	67.4	67.4	78.5	78.5		A 3. 4	83.	86.1

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

DELTA N = 0.0 0B NO. OF RECORDS: 6 IDENT: 6.6-077-101-280176-A A+ A+ B-P A	250 (102. AIRSI	E I	350	KNOTS				•		. + A		×	
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TABLES	SOUND	PR	PRESSURE	4	EVEL	SPE	FUIRA	2	2	NOT ISHOL		5			101111111							TOTAL TOTAL TOTAL	5	:
	GROUND-TO-GROUND	1-07	0-6R	ONNO	0	ROPAGATION	TION														OMEGA	9 A	9.	
AIRCRAFT	f-105					OPER 1	ATIO FTER 02.5 IRSP	BURN RED		0 0	ER KNOTS		2222	E E	N REA	F C	= 01	20	IL X		A/C OPS PROF 28 J	CODE CODE TLE JAN 7	1 107 VER:	4 A A
SLANT DISTANCE (FEET)	11	18	61	20	27	22	23	54	52	FRE 26	FREQUENCY 26 27 28	CY B 28	AND 29	NC ME	8. E	32	88	3.4	35	36	37	38	89	3
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004	06	16		102				106				107	. 0	105	. 0	106	90	106	100			20		104
630	86	63	87	98	0 0		+ -	101	0 0		0 4	103	t ~	101	100	101	100	101	66		96			93
900	84	82		96	m		60	66	+		2	101	0	66	6	66		98	9	2	95			87
1000	82	83	83	93	100	101	98		102	66	100	66		26	26	16	96	95	95	91	88	98	94	79
1250	80	81	13	90	16	86	92		66	26	98	96		16	16	46	76	95	89	87	40	31	11	202
2000	75	2 2	22	83	89	3 2	85	8 2	92	5 6	95	3 6	90	89	95	8 8	91	0 00 0 00	82	77	73	2.2	2 8	5 28
2500	7.1	20	68	7.8	85	96	81		88	89	91	89		96	98	85	84	81	92	12	99	28	94	28
3150	29	99	9	74	80	81	92		83	84	87	87		83	83	81	80	92	200	19	28	47	35	1
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6300	23	27	6	200	65	99	6.0		99	69	72	22		22	202	67	9	27	100	3 5	22	5		
8000	51	64	14	26	63	19	28		10	99	72	12		99	69	61	26	£ 8	35	18	2			
10000	84	14	*	24	9	61	55		61	63	68	19	99	63	66	24	4	37	21					
12500	94	42	45	25	28	29	25		25	29	19	62	09	25	25	46	37	54	4					
16000	*	4	40	6	22	26	5		20	25	9	25	2 .	20	*	35	52	5						
25.00	3 6	3 6	35	1 1	200	20	£ 2	t +	2 0	£ 2	t 2	1 2	3 +	3 4	* 00	2 8	2							
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* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS, NUMBER OF RECORDS: 6

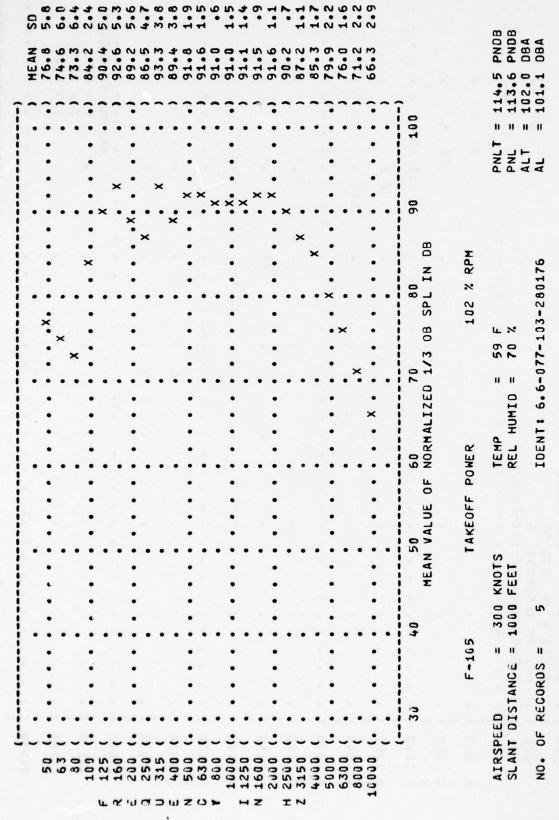
* BAND WHICH DETERMINES THE TONE CORRECTION (C).

(PERATION:) HETEOROLOGY:) A/C CODE: (LOS-5 % RPH		מאסטאס-סו-סאסטאס	רטא				-	OMEGA 6.6
AL ALT** PNL PNLT** SEL SELT** (DBA) (DBA) (DBA) (PNDB) (PNDB) (DB) (DB) (DB) (DB) (DB) (DB) (DB) (H H	RNER P		OIND	59	×
ALT			(AIRSPEE	"	175	0 0		
124.3 124.9 (PNDB) (PNDB) <td>LANT DISTANCE</td> <td>AL</td> <td>ALT**</td> <td>PNL</td> <td>PNLT**</td> <td>SEL</td> <td></td> <td>EPNL**</td>	LANT DISTANCE	AL	ALT**	PNL	PNLT**	SEL		EPNL**
124.3 124.9 138.0 138.6 119.3 120.2 112.0 122.6 133.4 134.0 116.7 117.6 117.2 117.8 131.0 131.6 115.3 116.2 114.8 115.4 128.8 126.4 113.8 114.7 112.3 112.9 128.6 110.9 1113.8 114.7 112.3 120.1 123.6 110.9 111.8 114.8 107.3 110.4 123.0 123.6 110.9 111.8 107.4 110.4 123.0 123.6 110.9 111.8 107.5 110.4 123.0 123.6 100.9 111.8 107.6 100.1 123.6 100.9 100.9 100.9 107.6 100.2 110.5 100.3 100.7 95.8 96.4 100.9 100.7 90.4 100.3 95.8 96.4 100.9 100.3 90.4 100.3 96.7 97.2 97.7 97.6 93.6 90.0 80.0 80.0 87.0 83.1 86.8 87.0 86.5 66.5 66.5 66.9 66.9 90.0 86.5 <td>(FEET)</td> <td>(084)</td> <td>(084)</td> <td>(PN08)</td> <td>(PNDB)</td> <td>(08)</td> <td></td> <td>(EPNDB)</td>	(FEET)	(084)	(084)	(PN08)	(PNDB)	(08)		(EPNDB)
112.0 1.22.6 135.8 136.3 118.0 118.9 119.6 120.2 133.4 134.0 135.4 136.1 117.6 117.6 117.6 117.8 114.7 117.6 115.4 128.5 126.4 113.6 115.3 116.2 116.2 116.8 116.7 117.6 116.2 116.8 110.4 123.0 125.6 116.9 110.9 110.9 110.9 110.9 110.9 110.9 110.9 110.9 110.9 110.0 100.0	200	124.3	124.9	138.0	38.	119.3	120.	123.5
119.6 120.2 133.4 134.0 116.7 117.6 117.2 117.8 131.6 115.3 116.2 117.2 115.4 125.8 126.4 113.6 114.3 112.3 112.9 125.8 126.4 116.2 116.2 110.4 110.4 125.8 126.4 110.9 111.6 101.8 110.4 120.1 120.7 100.3 110.9 101.8 102.4 115.9 110.2 100.3 110.9 101.8 102.4 110.9 110.2 100.8 100.9 101.9 102.4 110.9 110.2 100.8 100.8 96.9 99.5 110.9 110.2 100.8 100.8 96.9 106.0 106.0 100.8 100.8 100.8 96.4 106.0 106.0 100.8 100.8 100.8 96.4 106.0 106.0 100.8 100.8 100.8 96.4 90.0 106.0 100.8 100.8 100.8 80.0 80.0 87.0 87.0 87.0 87.0 70.5 66.5 66.5 66.5 73.9 77.5 77.5	250	122.0	122.6	135.8	136.3	118.0	118.	122.3
117.2 117.8 131.0 131.6 115.3 116.2 114.8 112.9 125.8 126.4 112.4 113.8 114.7 112.3 110.4 123.0 125.6 110.4 113.8 114.7 107.3 107.6 120.1 120.7 100.3 110.2 104.6 105.1 115.9 117.5 110.9 111.0 104.6 105.1 115.9 117.5 107.6 107.6 108.5 104.6 105.1 116.9 117.5 107.6 106.7 107.6 96.9 96.9 106.9 110.5 107.6 106.7 96.9 96.9 106.9 106.7 97.4 97.7 97.7 96.9 96.9 101.8 107.2 97.7 97.7 97.7 97.6 97.7 86.9 86.7 87.0 87.0 87.4 86.8 87.0 71.3 77.3 77.5 77.5 77.5 77.5 56.6 66.5 66.5 73.9 77.5 77.5 56.6 66.5 66.5 67.7 77.7 77.7 56.6 67.6 67.6 67.6 67.6	315	119.6	120.2	133.4	134.0	116.7	117.	120.9
114.8 115.4 128.5 129.1 113.8 114.7 112.3 112.9 125.8 126.4 112.4 113.3 107.8 110.4 120.1 120.2 110.9 111.8 111.8 104.6 105.1 116.9 117.5 107.6 106.5 104.6 105.4 113.5 114.1 107.6 106.5 104.6 105.4 113.5 114.1 105.8 106.5 95.8 96.4 106.0 110.5 106.5 106.7 95.8 96.4 106.0 106.6 107.8 106.8 96.7 97.2 97.7 97.7 97.4 94.9 106.6 106.6 100.3 96.7 94.8 97.2 97.7 97.4 97.4 94.9 106.6 106.6 97.7 97.4 94.9 106.6 106.6 97.7 96.7 94.9 106.6 107.8 97.4 94.9 107.8 107.8 97.4 96.7 97.7 97.4 97.4 96.7 97.7 97.4 97.4 96.8 87.6 87.6 97.4 96.9	00+	117.2	117.8	131.0	131.6	115.3	116.	119.5
112.3 112.9 125.8 126.4 112.4 113.3 109.8 110.4 123.0 123.6 110.9 111.8 104.6 105.1 116.9 117.5 107.6 108.3 110.2 104.6 105.1 115.9 117.5 107.6 108.3 110.2 96.9 99.5 110.9 110.5 107.6 108.7 108.7 95.8 96.4 106.0 106.0 106.7 106.7 95.9 96.9 110.5 97.2 97.2 97.2 97.7 99.4 100.3 88.7 89.1 97.2 97.2 97.7 96.7 90.0 90.0 88.7 84.8 97.2 97.2 97.7 96.7 90.0 90.3 86.9 87.2 87.4 90.0 90.3 87.0 86.8 87.0 71.3 77.3 78.6 77.5 77.5 77.5 77.5 77.5 66.5 66.5 66.5 66.5 67.7 90.0 90.7 77.5 77.5	200	114.8	115.4	128.5	129.1	113.8	114.	118.0
109.8 110.4 123.0 123.6 110.9 111.8 107.3 107.8 120.1 120.7 109.3 110.2 104.6 105.1 115.9 117.5 110.7 110.5 104.6 105.4 115.9 117.5 1107.6 1108.5 104.8 102.4 113.5 110.7 110.5 1108.7 96.9 96.9 106.0 110.5 110.8 110.7 97.4 93.0 106.0 106.0 100.3 98.7 97.2 97.7 97.7 97.7 80.0 80.2 87.0 97.6 97.6 80.0 87.2 87.0 96.7 97.0 80.0 87.0 87.0 96.7 97.0 77.3 77.3 78.6 78.6 78.6 83.4 86.5 66.5 73.9 77.5 77.5 86.6 66.5 66.5 68.9 77.5 77.7 86.6 66.5 68.9 77.7 77.7 86.6 66.5 68.9 77.7 77.7 86.6 68.9 77.7 77.7 77.7 86.6 68.9 77.7 77.7 </td <td>630</td> <td>112.3</td> <td>112.9</td> <td>125.8</td> <td>126.4</td> <td>112.4</td> <td>113.</td> <td>116.3</td>	630	112.3	112.9	125.8	126.4	112.4	113.	116.3
107.3 107.8 120.1 120.7 110.2 104.6 105.1 116.9 117.5 107.6 1108.5 101.8 102.4 113.5 114.1 105.8 106.7 96.9 99.5 109.9 110.9 1106.7 95.8 96.4 106.0 106.6 101.8 102.7 92.4 93.0 102.3 99.4 100.3 86.7 84.8 97.2 97.7 96.7 97.4 80.0 87.2 87.6 93.5 94.0 80.1 97.2 97.7 97.4 97.4 80.0 87.2 87.4 90.0 90.3 80.1 87.2 87.4 86.8 87.0 71.3 71.3 78.6 83.4 86.8 87.0 80.5 66.5 66.5 73.9 79.5 79.5 66.5 66.5 63.2 63.2 63.2 77.7 80.6 55.6 55.6 57.7 77.7 80.6 65.5 65.5 77.7 77.7 80.6 77.7 77.7 77.7 80.6 77.7 77.7 77.7 80.6 77.	840	109.8	110.4	123.0	123.6	110.9	111.	114.5
104.6 105.1 115.9 117.5 107.6 108.5 101.8 102.4 113.5 114.1 105.8 106.7 98.9 99.5 109.9 110.5 106.6 106.7 95.8 96.4 106.0 106.6 101.8 102.7 92.4 93.0 101.8 102.7 99.4 100.3 80.1 97.2 97.7 96.7 97.4 100.3 80.0 80.2 87.2 87.4 90.0 90.3 80.1 87.2 87.4 86.8 87.0 71.3 71.3 78.6 78.6 83.4 87.0 66.5 66.5 73.9 73.9 75.3 75.3 66.5 66.5 73.9 68.9 75.3 75.3 55.6 55.6 55.3 70.7 70.7 75.3 77.7 70.7 70.7 75.5 70.7 70.7 70.7	1000		107.8	120.1	120.7	109.3		112.6
101.8 102.4 113.5 114.1 105.8 106.7 96.9 99.5 109.9 110.5 106.6 106.7 95.8 96.4 106.0 106.6 101.8 102.7 92.4 93.0 101.8 102.7 86.7 97.2 97.7 96.7 97.4 80.0 80.2 97.2 97.4 97.4 80.0 80.2 87.6 93.5 94.0 80.1 97.2 87.4 90.0 90.3 80.1 87.2 87.4 86.8 87.0 71.3 71.3 78.6 78.6 83.4 66.5 66.5 73.9 73.9 75.3 75.3 66.5 66.5 73.9 75.3 75.3 75.3 55.6 55.6 55.3 70.7 70.7	1250	104.6	105.1	116.9	117.5	107.6		110.4
96.9 99.5 109.9 110.5 101.8 102.7 95.8 96.4 106.0 106.6 106.6 101.8 102.7 92.4 93.0 101.8 102.7 97.2 97.7 97.7 97.4 100.3 92.4 100.3 97.7 97.7 97.7 97.4 100.3 97.4 100.3 97.7 97.6 97.7 97.6 97.7 97.6 97.7 97.7	1690	101.8	102.4	113.5	114.1	105.8		108.0
95.8 96.4 106.0 106.6 101.8 102.7 92.4 93.0 1014.8 102.7 99.4 100.3 99.4 100.3 88.7 89.1 97.2 97.7 97.7 97.4 97.2 97.7 97.4 97.2 97.7 97.4 97.6 97.7 97.6 97.7 97.6 97.7 97.6 97.7 97.6 97.7 97.6 97.7 97.6 97.7 97.7	2000	6.96	99.5	109.9	110.5	103.9		105.4
92.4 93.0 101.8 102.3 99.4 100.3 88.7 89.1 97.2 97.7 97.7 96.7 97.4 84.5 84.8 92.3 92.5 94.0 80.0 80.2 87.2 87.4 97.4 97.5 94.0 90.0 90.3 87.0 87.2 87.4 87.6 83.1 86.8 87.0 97.4 87.0 97.4 87.6 66.5 66.5 73.9 73.9 73.9 73.9 75.3 75.3 75.3 75.3 75.3 75.3 75.3 75.3	2500	95.8	4.96	106.0	106.6	101.8		102.5
88.7 89.1 97.2 97.7 96.7 97.4 84.5 84.8 92.3 92.6 93.5 94.0 80.0 80.2 87.2 87.4 90.0 90.3 75.8 75.9 83.1 86.8 87.0 71.3 71.3 78.6 78.6 83.4 83.4 66.5 66.5 73.9 73.9 75.3 79.5 55.6 55.6 55.6 63.2 63.2 63.2 63.2 63.2 63.2 63.2 63.2 65.6 65.6 65.6 65.6	3150	4.26	93.0	101.8	102.3	4.66		89.5
84.5 84.6 84.6 92.3 92.6 93.5 94.0 80.0 80.2 87.2 87.4 90.0 90.3 75.8 75.9 83.1 86.8 87.0 71.3 71.3 78.6 78.6 83.4 83.4 66.5 66.5 73.9 73.9 79.5 79.5 55.6 55.6 63.2 63.2 63.2 77.7 70.7 60.5 60.5 63.2 63.2 63.2 63.2 65.6	0004	88.7	89.1	97.2	2.26	7.96		95.5
80.0 80.2 87.2 87.4 90.0 90.3 75.8 75.9 83.0 83.1 86.8 87.0 97.0 66.5 66.5 73.9 73.9 73.9 75.3 75.3 75.3 75.3 75.3 75.3 75.3 75.3	5000	84.5	84.8	92.3	95.6	93.5		91.4
75.8 75.9 83.0 83.1 86.8 87.0 71.3 71.3 78.6 78.6 83.4 83.4 83.4 83.4 66.5 66.5 73.9 73.9 73.9 75.3 75.3 75.3 55.6 55.6 55.6 63.2 63.2 70.7 70.7 70.7 70.7 70.7 70.7 70.7 70	6300	80.0	80.2	87.2	87.4	0.06		87.1
71.3 71.3 78.6 78.6 83.4 83.4 80.4 80.6 66.5 66.5 73.9 73.9 79.5 79.5 76.5 61.3 68.9 68.9 75.3 75.3 72.5 55.6 55.6 53.2 63.2 63.2 63.2 63.6 65.6 65.6 65.6	8000	2	15.9	83.0	83.1	86.8	87.	83.8
66.5 66.5 73.9 73.9 79.5 79.5 76. 61.3 68.9 68.9 75.3 75.3 72. 55.6 55.6 63.2 63.2 77.7 70.7 65.6	10000	71.3	24.3	•	78.6	47.4	8.2	0 50
61.3 61.3 68.9 72. 75.3 75.3 72. 55.6 53.2 63.2 77.1 70.7 70.7 70.7 70.7 70.7 70.7 70.7	12500	666.5	66.5		73.9	79.5	79.	76.5
55.6 55.6 63.2 63.2 70.7 70.7 65.6 62.6 62.6	16030	61.3	61.3	8	6.84	75.3	75.	72.4
40 A A A A A A A A A A A A A A A A A A A	2000	55.6	55.6		63.2	70.7	70.	67.8
	25000	6.94	49.5		57.0	. ני	7.5	62.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

315 TEMP = 59 F REL HUNID = 70 X	250 (•	102.5 % R	PM				•			. A.	•	×	
A+	15	•	EMP = 59	F 0 =	11	*					×	•	<u>a</u>	
X	00		DENTE A	9						A		*		
X X X X X X X X X X X X X X X X X X X	00	•		•	•	•	•	:	× .	•	•	* b.	•	
A	30	•	•		٠	10 10 10 10 10 10 10 10 10 10 10 10 10 1		•	A.		*	•		
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X X X X X X X X X X X X X X X X X X X	00	•	•		•	•	•	A+ .		•	*b		0.00	
X X X X X X X X X X X X X X X X X X X	0.9		٠		٠		×	•		×		•		
X X X X X X X X X X X X X X X X X X X	00	•	•		•	1 0 A	×	•	×			•		
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A + + =	00	•			A+		•	•		•				
GROUND 1	00		Addo	*	· ×			•			(0.81) UTI (4.5			
GROUND 1	0.0		•	×	· ×			•				•		
GROUND 7	00	•						•		•	•		:	
H	00		• ×	· ×	•						GROUN.	_ 11	O GROUND	
# d	0				•			•			• • •	= PNL = ALT		
	0	×.	S A CALL MO		ALDE DA SINE			•	•	•	•	. B.		

	102.5 % RPM AIRSPEED = 3 TEMP = 59 F DELTA N =				•	•	ST. E
::::::::::	TEMP = 59 F	SEU KNOLS					
	1 1 1 1 1	REL HUMID	Z 02 = 0I	•	•	•	ST .E
.:.:	40. OF RECORDS:	9 -	286176-A		94 LT 26 A	•	ST E.
330 (•		•	•		T. E
	• 844		5 C 10 C 1	٠	11	· ST	•
• • • • • • • • • • • • • • • • • • • •	•		•	٠	•	TS.	•
1000 (:	ST .E.	
1250 (.		٠	•	•		×	
1600 (.	•	•	•	•	•	STE .	
2000 (•		
2500 (.	•	•	•	•	•	· ×s	
3150 (.	•	•		•	X		Harry Barrett
.) 000+	•	•		•	• ×		\$ 0 k k k k k k k k k k k k k k k k k k
2000 (:	E.	· · · ×		
6300 (•	•	٠	•	×	•		
8000 (.	•	•	•	×	٠	×	9 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 /
10000 (. E . X	:	:		ONLINE TO GROUND
12500 (.			×	•	•		E E
16000 (•	ш •	• ×			•	S = SEL
20000 (E .X.	:	:	:		
25000 (6.0	XX	0.80	9	0 0 1	110	126



	AIR	-01-	AIR-TO-GROUND	O PRO	A	d	z														OMEGA	9	9.	
AIRCRAFT	f-105	2				0	ERATIONS TAKEOFF 102 X AIRSPEE	2 4	M M	KNO	015		22222	ETE	OROLOG TEMP REL	- H	" OI 0	53	4 ×		AAC OPS PROF PAGE	CODE CODE ILE AN 7	107 VER8	rm d
SLANT DISTANGE (FEET)	17	84	19	20	12	22	23	54	25	FRE 26	QUENCY 27 2		A 8 9 9 9	NUM B	8 g	32	۳ ۳	*	35	36	37	38	39	3
200	91	89	85	96	105	107	103	101	108	104	106	106	106	106	107	107	108	107	106	105 1	1 10	1 00	1 00 1	99
315	87	85	83	16	101		66		0	100	0	. ~	20	02	20	03	10	03	01	0	96		*	9
004	85	83	81	95	66		16		0	98	0	0	00	00	00	01	01	0	66	96	93		06	9
500	83	81	23	8	26	66	95			96	96	86	86	98	98	66	66	98	96	95	06		87	86
800	18	23	22	86	92	95	91			92	946	2 3	9 9	93	96	96	16	93	90	89	78		22	24
1000	77	15	73	84	90	93	69		93	68		95	91		91	95		90	87	85	80			99
1250	15	73	11	82	88	91	87	4 8	91	87	90	68	6 9	89	89	83	68	87	84	81	92	7.1	99	21
1600	73	11	69	80	86	88	85		68	85		87	98		98	98		84	80	11	7.1			46
2000	7.1	69	29	78	9.4	98	83		87	83		85	48		83	83		80	92	72	9			33
2500	69	99	69	92	82	84	81		85	80		82	81		80	80		92	7.1	99	28			17
3150	19	40	63	14	80	82	62		82	28		8.0	78		77	92		7.1	69	29	20		21	
4000	9	62	61	72	78	80	92		8.0	92		11	15		14	72		99	29	20	41		+	
2000	62	9	66	20	16	18	14		11	73		14	72		20	68		9	51	41	30	11		
6300	09	28	25	29	73	25	72		15	20		7.1	69		69	63		53	45	53	16			
8000	28	96	22	65	71	73	69		72	29		29	69		9	25		*	31	14				
10000	96	54	55	63	69	7.0	19			49	69	63		58	24		*	34	18					
12500	54	55	90	61	99	68	49			61	61	66		55	48		34	21	~					
16000	52	64	48	58	49	65	61			25	25	54		42	0 4	32	22	9						
20000	64	14	45	96	61	62	58	24	66	55	55	84	43	37	30	20	1							
25.00																								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: < BAND WHICH DETERMINES THE TONE CORRECTION (C).

	AIR-TO-GROUND PROP	AGATION					OMEGA 6.6
AIRCRAFT: F-105		(OPERATION: (TAKEOFF (102 %	POWER RPM	222	METEOROLOGY: TEMP REL HUMIO	= 59 F) = 70 %)	A/C CODE: 077 OPS CODE: 103 PROFILE VER: A
		(AIRSPEE	D = 300 KNOTS	TS	DELTAN = 0.0 D	08	PAGE 12
SLANT DISTANCE	A F	ALTON	PNL	PNLT	SEL		EPNL **
(FEET)	(08A)	(08A)	(PN0B)	(PNOB)	(80)	(00)	(EPNOB)
200	117.5	118.4	131.0	131.9	117.		120.7
250	115.3	116.2	128.8	129.6	115.9	9 117.0	119.4
315	113.1	114.0	126.5	127.3	114.		118.1
004	110.8	111.7	124.1	125.0	113.		116.8
200	108.5	109.4	121.6	122.5	112.		115.3
630	100.1	197.0	119.1	120.0	110.		113.8
800	103.6	104.5	116.4	117.3	109.		112.1
1000	101.1	102.0	113.6	114.5	107.		110.3
1250	98.5	99.3	110.7	111.6	106.	-	108.4
1600	1.56	9.96	107.6	108.5	104.	3 105.4	106.3
2000	92.9	93.8	104.4	105.3	102.	2	104.1
2506	6.68	8.06	101.0	101.9	100.	5 101.	101.7
3150	86.9	87.8	4.76	98.3	98.	.66 5	99.1
0004	83.7	84.4	93.7	4.46	96	3 97.	96.1
2000	80.3	80.9	90.3	6.06	93.	• 46 6	93.6
6300	76.9	77.2	86.8	87.2	91.	5 91.	6.06
3008	73.3	73.5	83.2	83.4	88.	.68	88.0
10000	69.5	69.5	19.4	79.4	86.	1 86.	85.0
12500	65.7	65.7	75.5	75.5	83.	3 83.	82.1
16000	61.6	61.6	71.3	71.3	.08	2 80.2	78.9
20000	57.4	57.4	66.7	2.99	77.	0 77.	75.3

** EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

			-				•			•				:			•	PNLT			
•	•	•	U 100		•	•	:	•	•	•	•	•	•	•	•	•		PNE	= ALT		130
	•	•	a				:			•				•			• •	4 d *	+ <		
-	•	•			4	•	•	•	•	:		•	•	•	•	•	•	•	•		120
*	A .					*	4							•			•			:	
8.		. A.	4		•	•	•	*	•	•		•	•	•		•	•	•	•	:	110
					A	A +			×	* •				•			•				
	•	•				•	• A •	:		•	*	•	•	•			•			:	106
							:	A	A+			*	×				•			•	
	7 0 %						•	•		A .	A	•	•	d	•	•	•	•	•		06
POWER	= 01		280176-1	•			:			:		4		•	*		:			•	
KEOFF F	REL HUMID	a w	103-280									•	×	A+.		×					8.0
	300 KN	0.0	77-10	:			:			:					×		×.	×		•	
RPM	3 = 3	RECORDS:	0-9-9				:			•				:		×	:		×	•	7.0
F-105 102 % RPM	SPEE	NO. OF R	NT .			•											× .	×		×	-
Į -	TEM	NO.	IOE				:			:				:			•		×	•	X
	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1 0

AIRSPEED = 300 KNOTS 315 (TEMP = 59 F REL HUMID = DELTA N = 0.0 DB 400 (NO. OF RECORDS: 5 1000 (DENT: 6.6-077-103-280176-A 1000 (DENT: 6.6-077-103-280176-A 2000 (DENT: 6.6-077-103-280176-A 3150 (DENT: 6.6-077-103-280176-A 1000 (DENT: 6.6-077-103-2	70 ×	ST E ST E
DELTA N = 0.0 DB NO. OF RECORDS! 5 IDENT! 6.6-077-103-280176-A	70 x	ST E ST ST ST E ST ST ST E ST ST ST ST ST E ST S
NO. OF RECORDS! 5 IDENT! 6.6-077-103-280176-		STE STE STE STE STE STE
		STE
630 (ST E STE STE STE
800 (STE
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	• EX.•	•
	EX	• 1
12500 (• • • •	• EX	AIR TO GROUND E = EPNL
16000 (• Ex	. S = SEL
20000 (E.X	
25000 (70 80 90	100 110

	GROU	NO-T	GROUND-TO-GROUND	ONNO	PROP	9															OMEG	•	9.9	
AIRCRAFT :	F-105	10				OPER T	AKE 10 1RS	EE X T	POWER RPM = 30	0 KNOT	213			ETE	OROLOGY TEMP REL 1	HOH HOW	# 01 # 01	59	# X		AVC OPS PROF PAGE	COD	E 1 1 76 76 2	77 03
SLANT DISTANGE (FEET)	17	87	64	50	72	22	23	24	52	FRE 26	QUENCY 27 28		0 A 8 2 9	30 0 1	31 31	32	33	₹ m	35	36	37	80 19	39	3
200	9 8	78	68	0.2	C		9		•	00					0	C					90	u		
250	9 6	82	80	91	9 6	100	96	9 0	101	56	5 6	66	56	56	100	100	101	100	86	80	76	0.0	000	0
315	82	90	78	89			36		0	95	26	26		26	26	9		96	96		91	90	89	
004	80	78	16	87		96	92		26	93	96	95		95	95		96	96	76		88	87	85	
200	78	92	14	85		93	96		76	16	93	93		93	93		76	93	91		85	83	82	
630	92	14	72	83	89	90	87		95	89	91	91		91	91		95	91	88		82	80	11	
800	14	72	20	81	96	88	94		9.0	87	68	68		88	89		89	88	82		64	92	22	69
1630	72	7.0	8	7.8	8.4	85	4			78	87	87		8	A		87	a a	82	6	75	7.1	46	4
1250	7.0	9	2 0	75		2	17			0 0		, 4		9 4	7 0		4	0	100	200	1.	1 9	0	ù
1660	. 4	9 4	3 3	22	110	7.8	7 2	7 0	0 0	90	0 0	0 0	t +	, d	, 4	7	•	10	75	200	1 9	0 0	2 2	1,4
2000	9	61	28	68	7.3	14	7.2			78	3 0	9 6		10	78		7.8	75	7.	27		200	12	- 0
2500	5	57	2	2	8	20	2.5			14	7.8	77		16	75		12	12	2		2 6	74	2	
3150	57	25	64	58		65	29			7.0	7.0	75		73	72		7.0	9	200	24	12	**	2 4	•
0004	53	14	1	53		29	26			65	2.0	7.1		7.0	69		65	61	24	45	36	21		
2000	24	43	39	48		55	51			9	99	29		99	65		09	55	94	36	25	9		
6300	42	38	35	43	8 4	20	46			24	62	63		62	09		24	48	37	54	11			
8600	94	36	33	41		14	1 1	4 7		51	29	66		28	22		47	33	56	σ				
100001	38	34	30	39	##	45			47	84	55	55		53	64	45	39		13					
12500	36	32	28	37	41	45			1 1	45	51	51		47	43	37	53	16						
16600	34	53	56	34	39	40			41	41	14	94		40	35	27	17	7						
20000	31	27	23	32	36	37	32	58	37	36	74	40	37	32	52	15	2							
SECON	0	,		0.000																				

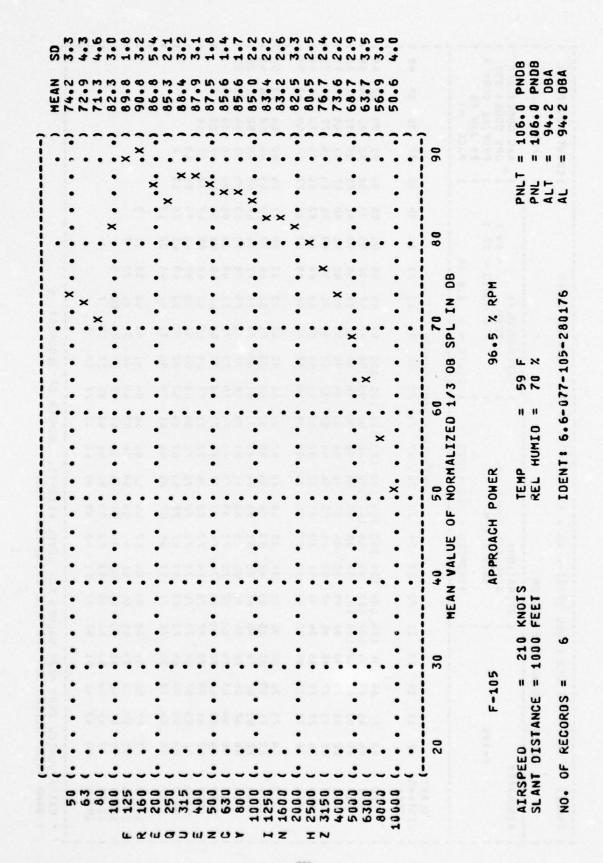
NUMBER OF RECORDS: * EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORD:

	GROUND-TO-GROUND P	PROPAGATION						OMEGA 6.6
AIRCRAFT:		(OPERATION:	POWER		METEOROLOGY 8 TEMP	"		A/C CODE: 077 OPS CODE: 103
F-105			RPM		REL	+ OINO	70 %	PROFILE VERS
		(AIRSPEED	= 300 KNOTS	115	DELTA N =	0.0 08		PAGE M2
SLANT DESTANCE	A.	ALT**	PR	PNLT		SEL	SELT**	EPNL**
(FEET)	(08A)	(08A)	(PN08)	(PN08)		(08)	(08)	(EPNDB)
200	112.5	113.6	126.0	127.0		112.1	113.3	115.8
250	110.3	111.4	123.7	124.8		110.9	112.1	114.6
315	108.1	109.1	121.4	122.5		109.7	110.9	113.3
90+	105.8	106.9	119.1	150.1		108.4	109.6	111.9
200	103.5	104.5	116.6	117.6		107.1	108.3	110.4
630		102.1	11 4.0	115.0		105.7	106.9	108.8
900	98.6	9.66	111.3	112.3		104.5	105.4	107.1
1000	96.0	97.1	108.4	109.4		102.6	103.9	105.2
1250	93.4	4.46	105.3	106.4		101.0	102.2	103.1
1600	9006	91.6	102.0	103.0		89.5	100.4	100.8
2000	87.7	88.7	98.5	66.5		97.3	98.5	98.3
2500	84.5	95.6	1.46	95.7		95.1	96.4	95.5
3150		82.2	4.06	91.5		95.8	0.46	92.3
4000	77.5	78.3	85.8	96.6		90.1	91.1	4.88
2000	73.3	24.0	80.8	81.5		86.9	87.7	84.2
6300	68.9	69.3	75.5	15.9		83.5	84.0	9.62
8000	9.49	64.8	7.0.7	6.02		80.1	4.08	15.6
10000	69.6	69.6	66.0	66.0		76.5	76.5	71.6
12500	6.46	6.46	-	61.0		72.5	72.5	9.79
16000	49.5	49.5	92.6	55.6		68.1	68.1	63.2
20000		43.6	49.5	49.5		63.2	63.2	58.1

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 5
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

TEMP HENDELLAR STATE OF THE STA	250	:	10	2 %	T												A+				4	
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(F-105	(AIRSPEED =	(. TEMP = 59 F	(. NO. OF RECORDS	C																	40 50
TAKEOFF	300 KNOTS	REL HU	RDS: 5	0.7-103-28	•	• %,			•		•	•	•		•	•			•	E X.	x
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AIRCRAFT:								2	2	201100	20		SLANI	DISTANCE	ANCE	(08)				-	ENI	IDENTIFICATION	LIO	-
IRCRAFT	AIR-TO-GROUND	9-0	ROUN		PROPAG	ATION	z				200		7								OMEGA	A 6	9.	
	F-105					OPER	PPRO 96.5	A A A A A A A A A A A A A A A A A A A	PERATIONS APPROACH POWE 96.5 % RPM	œ			2000	W	TEOROLOGY I TEMP REL HU	HUMI	" "	59 F	F %		A/C OPS PROF	000E	: 105 VER:	P W A
					-	A	IRSPE	EEO	= 21	D KNOT	OTS		-	ELTA	2	0.0	90 0			-	PAGE	H		
SLANT										FRE	QUENCY	0	A	NUMBE	E E									
DISTANCE	11	18	19	20	51	22	23	54	52	56	27	28	53	30	31	32	33	34	35	36	37	38	36	6
200	88	87	85		104		101	100	0	02	102			100	66	66	66	98	96	76	91	68	18	8
250	98	85	83		102	103	66	96	101		100	98		86	16	16	26	96	93	92	88	96	94	80
315	40	83	81	95	100	101	26	96	66	98	98	96	96	96	95	95	96	93	91	68	85	83	81	81
400	95	81	62		86	66	95	16	16	96	96	76		16	93	93	95	91	88	87	83	80	11	-
200	80	61	2		96	5	93	91	95	76	76	35		95	06	91	8	69	98	94	80	22	73	-
630	9	2	2		5	35	16	00	5	36	36	96		06	90	0	80	90	83	19	9	2	99	0
800	9/	2	2		92	93	6.0	28	91	90	20	80		8	98	99	82	83	9 6	-	2	69	63	
1000	14	73	12	82	90	91			88	88	87	86		85	83		82	80	11	14	69	19	25	5
1250	72	11	69	80	88	89			86	98	85	83		83	81		80	11	73	69	79	58	20	41
1600	20	69	29	78	98	87			84	84	83	81		80	8.2		11	14	69	65	66	25	41	2
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2500	99	69	63	14	82	82			80	62	18	92		15	72		69	99	9	53	94	35	18	
3150	49	63	61	72	62	80			11	77	92	73		72	69		65	61	24	94	37	23	m	
0004	62	61	29	20	11	78			22	42	73	11		89	65		60	22	14	37	27	10		
2000	9	66	25	68	15	92			72	11	20	89		65	61		52	64	39	56	15			
6300	58	96	25	69	73	73			20	69	29	49		9	25		64	41	62	13	0			
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16000	64	14	46	99	Ó	63	28	22	22	24	25	47		37	53	20	6							
20000	14	45	43	53	9	69	25	25	53	20	94	40	35	28	19	1								
25000	*	43	40	51	S	25	51	4 8	48	45	104	33		18	9									

+ EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6

A BAND WHICH DETERMINES THE TONE CORRECTION (C).

***************************************	TOTAL ONOONO LATE	AGATION					•	OMEGA 6.6
AIRCRAFT: F-105		(OPERATION! APPROACH POWER 96.5 % RPM (AIRSPEED = 210	H POWER RPM D = 210 KNOTS	STC	METEOROLOGY: TEMP REL HU DELTA N = 0	67: P HUMID = 0.0 08	59 F)	A/C CODE: 077 OPS CODE: 105 PROFILE VER: A 28 JAN 76 PAGE I3
SLANT DISTANCE (FEET)	AL (OBA)	ALT** (08A)	PNL (PNOB)	PNLT**		SEL (08)	SEL 7**	EPNL** (EPNDB)
200	110.0	110.0	123.1	123.1		109.3		113.7
250	107.9	107.9	120.9	120.9		108.2	109.1	112.4
315	105.7	105.7	118.6	118.6		107.0		111.2
004	103.5	103.5	116.3	116.3		105.8		109.8
200	101.2	101.2	113.8	113.8		104.6		108.4
630	99.0	9.66	1111.3	111.3		103.3		106.9
800	9.96	9.96	108.7	108.7		102.0		105.3
1000	94.2	94.2	106.0	106.0		100.6	101.4	103.6
1250	91.8	91.8	103.2	103.2		99.1	-	101.8
1600	89.2	89.2	100.3	100.3		97.5		6*66
2000	86.6	96.6	97.3	97.3		6.56	96.8	97.9
2506	83.8	83.8	4.46	4.40		94.2		96.0
3150	81.0	81.0	91.5	91.5		92.3		0.46
0004	78.1	78.1	88.4	88.4		4.06		91.7
2000	75.0	75.0	85.1	85.1		88.3		89.3
6300	71.8	71.8	81.7	81.7		86.2		86.7
8000	68.5	68.5	78.2	78.2		83.8		0.49
10000	65.0	65.0	74.6	74.6		81.3		81.3
12500	61.4	61.4	70.8	70.8		78.7		78.5
16000	57.5	57.5	66.8	8 • 99		75.9		75.5
20000	53.5	53.5	62.6	62.6		72.9	72.9	72.3
25000	1							, ,

(* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

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F-105 X RPH APPROACH POWER AIRS PEED = 210 KNOTS ST E ST
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	GROU	-QN	GROUND-FO-GROUND	ONNO	PRO	OPAGATION	LION													-	OMEGA	9	9.
AIRCRAFT	F-105	2				OPERA	ATION PROA	# 5 ×	ERATION: APPROACH POWER 96.5 % RPM				E	ETEOR	TEOROLOGY S TEMP REL HU	_ \ \	""	59 F			A/C DPS PROF	A/C CODE OPS CODE PROFILE	E: 105 VER:
20002						AI	IRSPE	ED	= 210	KNOT	15) DE	ELTA !	II Z	0.0	90				28 J	AN 7	
SLANT DISTANCE (FEET)	17	18	61	20	21	22	23	24	25	FREQ 26	QUENCY 27 2	8 B	0 N	NUMBER 30	α μ	3.2	£ 83	4.	35	36	3.7	80 89	3 62
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800	7.1	7.0	99	62	85	98	82			85			83	2	-	-	0	80	2	2	80		80
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2500	58	52	55	61	89	68	64		6	73			-	0		9		-	2	80	-		
3150	24	51	47	25	63	63	69		2	68			20	~		8		9	6	-	2	8	
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2000	45	41	37	94	55	53	64		+	58			-			4		t	+	-	10		
6300	0+	36	33	41	48	84	44		8	53			2	10		8		9	54	0			
8000	38	34	30	39	45	94	41		2	64			2	-		2		_	15				
10000	35	32	28	37	43	43	38				20		80	9		S	1	16					
12500	33	30	56	35	41	0+	36				9+		2	6	m	9	17	2					
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* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: < BAND WHICH DETERMINES THE TONE CORRECTION (C).

	GROUND-TO-GROUND P	PROPAGATION				-	OMEGA 6.6
AIRCRAFT: F-105		(OPERATION: (APPROACH POWER (96.5 % RPH	POWER		METEOROLOGY: TEMP REL HUMID = 7	59 F)	A/C CODE: 077 OPS CODE: 105 PROFILE VER:
		(AIRSPEED	= 210 KNOTS	115	DELTA N = 0.0 08		28 JAN 75 PAGE M3
SLANT DISTANCE	ĄŁ	ALTON	PNL	PNLT**	SEL	SELT**	EPNL**
(FEET)	(084)	(DBA)	(PN0B)	(PN08)	(80)	(08)	(EPNDB)
200	105.0	105.0	118.1	118.1		105.2	108.6
250	102.9	102.9	115.9	115.9	103.2	104.1	107.4
315	100.1	100.7	113.6	113,6		102.9	106.1
004	98.5	98.5	111.2	111.2		101.7	104.8
200	96.2	96.2	108.8	108.8		100.4	103.3
630		93.9	106.2	106.2		99.1	
900	91.5	91.5	103.5	03.		97.8	
1000	89.1	89.1	100.6	100.6	in	96.3	98.2
1250	86.5	86.5		94.6	3.	2.46	96.2
1600	83.8	83.8	;	4.46	2.	93.1	93.9
2000	81.1	81.1	91.0	91.0		91.3	91.5
2500	78.0	78.0	87.3	87.3	88.3	89.2	88.8
3150	74.6	74.6	83.2	83,2		86.8	85.8
0004	6.07	70.9		78.7	3	83.9	82.1
2000	2.99	2.99	3	73.8		80.5	78.0
6300	62.1	62.1		68.7	9	76.8	73.7
8000	58.0	58.0	;	64.5	3	73.5	4.07
10000	53.4	53.4	0.09	60.0	6	89.8	66.7
12500	48.5	48.5	6.45	6.45	3	6 • 59	9.29
16000	43.2	43.2	4.64	4.64	61.6	61.6	58.1
20000	37.4	37.4	45.6	45.6	.9	56.8	52.3
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* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

TEMP = 59 F REL HUNID = 70 X DELTA N = 6.0 08 NO. OF RECORDS: 6 100 NT 6 6.0 - 077-105-280176-A TOWN THE 6.0 - 077-105-280176-A X X X X X X X X X X X X X X X X X X X	250 (96.	ă,		STONA							•	×	
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TEMP 89 F REL HUMID = 70 X DELTA 10 0 08 NO. OF RECORDS: 6 10 ELTA 10 0 08 NO. OF RECORDS: 6 10 ELTA 10 0 08 NO. OF RECORDS: 6 10 ELTA 10 0 08 STE STE STE STE STE STE STE ST	•	AIRSPEE	0 = 210	KNOTS											
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ED HEAN VALUE OF NORMALIZED 1/3 OB SPL IN DB B OF SPL OR S		-	•	•		•	•		•		•					•	-	MEAN	0,
S	X X X X X X X X X X X X X X X X X X X	20 (•	×		•		•		•	68.2	-
20		63 (•				•		•		×					•	-	68.2	-
20		80 (•	•			•		•		×					•	-	68.2	_
X X X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	20 30 HEAN VALUE OF NORMALIZED 1/3 OB SPL IN DB F-105 INTERMEDIATE POWER 93 % RPH F-	001				•			•			×			•		:	72.6	۳,
17.6 17.6	Z0	125 (•			•		•		•		×			•	-	76.6	_
71.9 76.4 76.4 76.4 76.4 76.4 76.4 76.4 76.4	X X X X X X X X X X X X X X X X X X X	160	•				•		•		•		×			•	~	77.6	
X	X X X X X X X X X X X X X X X X X X X	200 (•			×	•		•		•	71.9	7
Yes	X	250 (•	•			•		•		•		×			•	-	76.3	,,
X	X X X B B B B B B B B B B B B B B B B B	315 (•		•		•		×	•		•	-	76.4	.,
Second S	No.	000	•	•			•		•		•					•	^	79.2	-
		200 (•	•	•	•	•	×	•	•	•	80.7	7
Second S	No.	630 (•	•			•		•		•				×	•	^	85.8	**
### 103.2 PNDB FEED = 290 KNOTS FEED FEED = 290 KNOTS FEED FEED = 290 KNOTS FEED FEED = 200 KNOTS FEED FE	No.	900	•	•			•		•		•			•	×	•	-	85.0	w
Second S	X	0000			•				•						· · ×		:	83.4	,
F-105 INTERMEDIATE POWER F-105 INTERMEDIATE POWER OISTANCE = 1000 FEET FECORDS = 6 INTERMEDIATE 6-077-106-289176 ALT = 91.6 DBA SH 20	F-105 FEED	250 (•				•		•		•			× .		•	^	81.9	,,
Note	X	9009	•	•			•		•		•			× •		•	-	81.7	
X	X	000							•	•			•	• ×			:	80.0	_
X	X	200 (•				•		•		•			· ×		•	-	79.0	~
X	20 30 40 50 60 70 80 90 90	150 (•	•			•		•		•		×			•	-	77.0	_
F-105 FED = 290 KNOTS FECORDS = 6 IDENT: 6.6-077-106-289176 50.0	X	000	•			•	•		•		•		×			•	-	75.9	-
F-105 FED = 290 KNOTS FECORDS = 6 INTERMEDIATE HUMID = 70 % ALT = 92.1 DBA ALT = 91.6 DBA	X	000			•		•				× .	•	•	•	•	•	•	70.0	•
FED = 290 KNOTS TEMP = 59 F PNLT = 103.7 PNL	FED = 290 KNOTS TEMP = 59 F PNLT = 102.7 ALT = 92.1 SF RECORDS = 6 IDENT: 6.6-077-106-280176 ALT = 91.6	2000	•				•		•	×	•					•	-	63.2	-
FED = 290 KNOTS FEL HUMID = 70 % PNLT = 103.7 FECORDS = 6 FECORD	FED = 290 KNOTS TEMP = 59 F PNL = 102.7 ALT = 92.1 FRECORDS = 6 IDENT: 6.6-077-106-289176 ALT = 91.6	000	•				•		9		•			•		•	-	56.1	
30	30	000		•		•	×.					•	•	•		:	•		٠.
30 40 50 60 70 80 90 MEAN VALUE OF NORMALIZED 1/3 08 SPL IN DB 105 INTERMEDIATE POWER 93 % RPM = 290 KNOTS TEMP = 59 F PNLT = 103.2 = 1060 FEET REL HUMID = 70 % ALT = 92.1.6 = 6 IDENT: 6.6-077-106-289176 AL = 91.6	30 40 50 60 70 80 90 MEAN VALUE OF NORMALIZED 1/3 08 SPL IN DB 105 INTERMEDIATE POWER 93 % RPM = 290 KNOTS TEMP = 59 F = 1000 FEET REL HUMID = 70 % ALT = 92.1 = 6 IDENT: 6.6-077-106-280176 AL = 91.6		•				•		•		•	1		•		•	- 1		
= 290 KNOTS TEMP = 59 F PNLT = 103.2 PNLT = 103.2 PNLT = 102.7 PNL = 102.7 PNL = 92.1 PNL = 92.1.6 PNL = 91.6	= 290 KNOTS TEMP = 59 F		20	30	MEAN	40 VALUE	96	ORMALI	9	13	SP	Z	90	80		6			
= 290 KNOTS TEMP = 59 F = 1000 FEET REL HUMID = 70 % PNL = 102.7 ALT = 92.1 = 6 IDENT: 6.6-077-106-280176 AL = 91.6	= 290 KNOTS TEMP = 59 F = 1000 FEET REL HUMIO = 70 % PNL = 102.7 ALT = 92.1 = 6 IDENT: 6.6-077-106-280176 AL = 91.6		F-10	5		INTERM	EDIAT		æ				I						
= 6 IDENT: 6.6-077-106-280176 AL = 92.1	= 6 IDENT: 6.6-077-106-280176 AL = 92.1.6	LANT					- 2	EMP EL HUP							N N	_		NA.	8 8
		0.0					Η	DENT :	6.6-0	177-10	6-28	9116			A P			4 0	

	AIR-	10-6	AIR-TO-GROUND	D PRO	PA	ATI	z														OMEG	9	9	
AIRCRAFT	F-105	25				OPE	AZ F	10 % C	ATE PH	POWER	2 2		20000	ETEOF	EOROLOGY TEMP REL H	. 5	" " 01	59 70 7	4 %		PROF PROF	CODE CODE ILE AN 7		077 106 Rt A
SLANT						0.5				1 2	1	1 00		NOMBE	1 2		1					1		
DISTANCE (FEET)	17	18	19	20	21	22	23	54	52	56	22	58	59	30	31	32	33	34	35	36	37	38	39	5
200	82	82	82	87	91	92	86			76	95	98	100	66	98	98	16		96	26	92	89	87	80
250	38	80	90	85	68	90	84	68	89	95	93	96	9 6	26	95	96	96	46	93	76	06	98	84	
315		7.8	78	83	87	88	82			96	91	93	96	95	93	16	95		91	95	87	83	80	~
400		92	92	81	85	96	80			88	89	91	46	95	91	91	90		89	68	84	80	11	2
200	14	14	14	19	83	84	78			85	87	89	95	90	68	68	88		96	98	81	92	22	2
630		72	72	11	81	82	92			83	85	87	6 8	88	87	87	85		83	83	18	72	89	ø
800		20	20	15	79	80	7.4			81	83	92	87	99	48	48	83		80	80	1.	99	95	5
1000	68	89	99	73	11	78	72			62	81	83	85	83	82	82	80		77	91	2.0	63	96	4
1250	99	99	99	7.1	14	92	20			11	18	81	83	81	19	62	11		73	72	65	58	64	39
1609	49	19	19	69	72	73	68			22	92	18	8 0	78	11	92	14		69	29	09	51	9	2
2000	62	62	62	99	7.0	7.1	99	10	7.0	73	14	92	7 8	92	14	73	7.1	89	9	61	24	43	53	7
2500	9	9	09	10	99	69	63			20	7.1	73	25	73	11	20	29		9	52	14	34	17	
3150	28	58	28	62	99	29	61			99	69	12	72	7.0	29	99	63		24	48	38	22	+	
0004	96	96	96	9	49	69	69			69	99	89	69	99	9.0	62	28		47	39	28	6		
2000	24	24	24	58	62	63	25			63	63	65	99	63	9	25	25		39	28	16			
6300	25	25	25	26	29	9	24			9	09	61	62	59	25	25	94		53	15	-1			
8,00	20	64	64	24	25	28	25			25	25	28	2 8	24	20	+2	38		17					
10000	14	14	1+	51	55	25	64		25	53	53	24		64	43	38	59	13	~					
12500	45	45	45	64	25	53	94	20	64	20	64	64	8 4	45	36	53	19	ß						
16000	43	43	45	94	20	20	43		45	46	45	**		35	22	18	S							
20000	41	40	0+	11	14	47	0 4		41	41	39	37		56	17	2								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6 ** BAND WHICH DETERMINES THE TONE CORRECTION (C).

AIR-10-6	AIR-TO-GROUND PROP	AGATION					• •	OMEGA 6.6
AIRCRAFT: F-105		(OPERATIONS INTERNEDIATE 93 % RPM	DIATE POWER		METEOROLOGY: TEMP REL HU	JGY: AP HUMID =	59 F)	
		(AIRSPEE	D = 290 KNOTS	15	DELTA N =	0.0 08		PAGE I4
SLANT DISTANCE	A F	ALTON	PNL	PNLT		SEL	SELT**	EPNL
(FEET)	(DBA)	(08A)	(BONDS)	(PNDB)		(08)	(08)	(EPNDB)
200	108.0	108.6	120.7	121.3		105.7	107.7	110.0
250	105.8	106.4	118.4	119.0		104.5	106.5	108.6
315	103.6	104.1	116.0	116.5		103.3	105.3	107.2
004	101.3	101.9	113.5	114.0		102.0	104.0	105.7
200		99.5	110.9	111.4		100.7	102.7	104.1
630	•	97.1	108.3	100.8		99.3		106.5
800	94.1	2.46	105.5	100.1		97.8	99.8	100.8
1000	91.6	92.1	102.7	103.2		96.3	98.3	98.9
1250	88.9	89.5	9.66	100.2		9.46	2.96	6.96
1600	86.2	86.8	90.4	6.96		92.9	6.46	9.46
2000	83.4	83.9	93.1	93.6		91.1	93.1	92.3
2500	90.4	80.9	89.7	90.2		89.1	91.1	6.68
3150	77.3	77.8	86.1	86.7		87.0	89.0	4.78
0004	74.0	74.4	82.6	83.0		84.7	86.3	94.4
5000	20.5	70.8	78.8	79.1		82.1	83.4	81.2
6300	2.99	6.99	8.4.2	75.0		19.4	80.2	77.8
8 0 0 0	62.7	62.8	5.07	9.02		76.4	•	74.1
10000	58.4	58.4	62.9	69.6		73.1	73.1	70.1
12500	53.8	53.8	61.3	61.3		69.5	69.5	66.5
16000	48.9	6.84	56.4	56.4		9.59	9.59	9.29
20000	43.8	43.8	51.0	51.0		61.5	61.5	58.3
	-					-		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

F-105 105 105 105 105 105 105 105
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CHOPAZOM

	CROC	ND-T	0-6R	GROUND-TO-GROUND	PROP	PAGA	AGATION														OMEGA 6.6	A 6	9	
AIRCRAFT	F-105	9					ERATION: INTERMEDIATE 93 % RPM	AEDI Z R	1	POWER			200	1ETEOROLOGY8 TEMP REL HU	TEM REL	HUMI	" "	59 F		?	A/C OPS PROF	882		106 106 RI A
						4	IRSPEE	EED :	6	D KNOT	STS		~ ~	ELTA	II Z	0.0	90 0				28 J	AN 7	9	
SLANT DISTANCE (FEET)	11	18	19	20	12	22	23	54	25	FREG 26	EQUENC 27	28 B	AND A	NUMBER	8. E	32	33	* *	35	36	37	3.8	39	9
		;	;		3					9				;		;			2					6
200		-	-	20	0 0	200	10			7 6	06	3	200	* 0		200	25	25	16	200	200	**	20	0
315	2 2	22	22	7 8 0	2 0	0 %	27	2 C	5 0	8 6	8 0	8 2	, e	2 6) «	1 6	2 4	2 4	9 0	2 2	82	78	27	10
004		2 2	17	92	80	81	25			83	7 8	86	6 8	87		86	85	35	9 4	\$ c	26	2	72	7.0
200		69	69	14	18	78	72			80	82	84	87	85		84	83	82	81	81	91	7.1	29	65
630		29	20	72	15	92	20			78	80	82	84	83		82	80	80	78	7.8	73	19	63	59
800		65	9	69	72	73	29			92	18	80	82	81		4	78	11	15	52	69	63	25	52
1000	63	63	63	99	69	70 <	49		7.1	14	91	78	8.0	78	11	11	15	74	72	7.1	65	58	51	44
1250	61	61	9	63	99	29	61		68	72	73	91	7.8	9/	74	14	72	7.1	89	29	09	53	*	34
1600	59	58	25	9	63	63	58		69	20	7.1	73	22	73	72	7.1	69	29	49	62	55	94	35	22
2000	96	24	53	96	56	56	24		61	89	69	7.1	73	7.1	69	89	99	63	9	96	64	38	54	1
2500	25	20	64	25	25	22	64		25	79	99	89	20	68	99	9	62	29	22	20	45	53	15	
3150	8 4	94	44	14	20	20	44		53	99	63	99	29	99	9	61	28	24	64	43	33	17		
0004	1	41	39	41	2	**	33		t 9	22	29	62	19	61	23	25	53	64	45	34	23	4		
5000	39	36	34	36	33	40	34		45	5	22	28	0 0	28	22	55	14	45	34	53	11			
8000	32	29	22	30	32	35	56	31	330	; ;	4 7	20	25	101	42	10	33	25	12	2				
1,000		27	25	27	30	30	24			37	43	4	17	1	3.8	2	24	14						
12500		25	23	52	27	27	21			34	39	41	42	37	31	54	14							
16000	52	23	20	22	25	54	18	21	23	30	35	36	36	30	22	13	0							
20000		20	18	20	22	21	14			52	59	53	28	21	12	0								
25000																								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6

* BAND WHICH DETERMINES THE TONE CORRECTION (C).

A IRCRAFT 1	מוסטעס-ס -סעססעס	NOTI WOULDNA						OMEGA 6.6
F-105		OPERATIONS INTERMEDIATE 93 % RPM MARSPEED = 29	DIATE POWER RPH D = 290 KNOTS	2	HETEOROLOGY: TEMP REL HUMIO DELTA N = 0.0	= 59 0 = 70 08	L X	A/C CODE: 077 OPS CODE: 106 PROFILE VER: 0 28 JAN 76 PAGE M4
SLANT DISTANCE (FEET)	AL (08A)	ALT** (08A)	PNL (PNDB)	PNLT**	6,5	SEL (08)	SELT**	EPNL**
200	103.0	103.5	115.7	116.2	100	1.1	102.7	104.9
250	100.8	101.3	113.4	113.9	6	9.5	101.5	103.6
315	9.96	99.1	1110	111.5	36	8.3	100.2	102.2
007	96.3	96.8	108.4	109.0	6	7.0	99.0	100.6
250	9.40	94.5	105.8	106.3	5 6	7.0	97.6	0.66
900	89.1	9.68	100.4	100.9	66	92.8	94.8	9.56
1000	96.6	87.1	4.76	6.76	91	1.3	93.2	93.6
1250	83.9	94.4	94.2	94.6	80	9.6		91.4
1600	81.2	81.7	90.6	91.3	8	6.7	89.8	0.69
2000	78.3	78.8	87.3	87.8	96	86.0	88.0	86.5
2500	75.3	75.8	83.5	84.0	.00	3.9	85.9	83.7
3150	72.0	72.5	19.5	80.0	•	1.7	83.7	2.08
0004	68.4	9.89	75.3	15.7	7	9.1	2.08	77.1
2000	64.3	9.49	7.07	71.0	76	0.9	77.2	73.1
6300	59.8	0.09	65.5	65.7	7	2.5	73.3	9.89
9000	55.4	55.5	60.8	6.09	9	9.1	69.5	4.49
10000	50.5	50.5	55.3	55.3	9	5.5	65.2	9.69
12500	45.1	45.1	49.3	49.3	9	69.8	60.8	54.5
16000	39.5	39.2	41.8	41.8	5	6.5	55.9	48.1
20000	32.5	32.5	33.4	33.4	20	0.5	50.5	9.04
25000	25.2	25.0		-				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

REL HUMID = 70 % 106-280176-A 106-280176-A	C TEMP = C DELTA C NO. OF	290 KNOTS			×	
NO. OF RECORDS: 6 IDENT: 6.6-077-106-280176-A NO. OF RECORDS: 6 NO.	NO. OF	REL HUMID	20	•	*	×.
X X X X X X X X X X X X X X X X X X X		99	•	٠	•	•
A	•	•		× · · · · ·	•	•
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315 (AIRS	93 % RPM 93 % RPM AIRSPEED = TEMP = 59 F		KNOTS REL HUMID		POWER	.01.			• •		o, c	ST E
000	NO.	OF RECC	RECORDS:	6 6-280176	76-A		•			•	S	ST	7.E
200							•	•	•		. 8	TE	re
630 (•			•	S TE		e de la companya de l
800	.:.	•				•				•	S TE		•
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12500 (•		w		×	•			•	E = 1		EPNL F SELT
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AIRCRAFT AIRCRAFT												AIRCRAFT
F-1050 F-1050											× 0	F-1050 F-1050
					PAGE	228-233 234-239 240-245 246-251		RCE	8		A .	
AIRCRAFT AIRCRAFT	>		S			::::	PROVIDED:	JENCY E FROM SOUI	SOUND LEVEL 250 FEET FROM SOURCE		. 8 4 4 8 0 0 ₪	AIRCRAFT AIRCRAFT
F-1050 F-1050	O ON THE GROUND BY	AIRCRAFT	DURING GROUND RUN-JP OPERATIONS	TEST 74-604-023 AIRCRAFT CODE: 077 PROFILE VERSION: A COMPUTER PROGRAM OMEGA 8.2			THE FOLLOWING DATA ARE PROVIDED	MALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY NORMALIZED SPL AT 250 FEET SE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE PERCEIVED NOISE LEVEL TONE-CORRECTED, PERCEIVED NOISE LEVEL	EVEL OVERALL SOUND LEVEL ANGLE AT 250 FEET FR	31 MAR 76	RESEARCH FORCE	F-1050 F-1050
AIRCRAFI AIRCRAFI	NOISE PRODUCED	F-1050	DUZING GROUND	TEST 74- AIRCRAFT CODE: PROFILE VERSIO COMPUTER PROGRAM			SETTING, THE FOI	AT 250 FEET FUNCTION OF FUNCTION OF ASE LEVEL	SRALL SOUND LI), A-WEIGHTED FUNCTION OF	31	Е В В В В В В В В В В В В В В В В В В В	AIRCRAFT AIRCRAFT
F-1650					POWER SETTING	85% RPM	FOR EACH POWER SET	NORMALIZED DATA AS A FUNCY NORMALIZED SPL AT 250 NOISE LEVELS AS A FUNCTION PERCEIVED NOISE LEVEL TONE-CORRECTED, PERCEI	A-WEIGHTED OVERALL SOUND LEVEL TONE-CORRECTED, A-WEIGHTED OVERALL SO NOISE LEVELS AS A FUNCTION OF ANGLE AT 25		I G H D D E D D E D D E D D E D D D D D D D	F-1050 F-1050
AIRCRAFT					1						4 3 4 3	AIRCRAFT
F-1050												F-1050

STO	1/3 OCTAVE DISTANCE =	BAND 250	ET	200	16 464	600									30-0	MEGA EST 7	125	-023	
30.50 50.50	SOURCE/SUBJECT: 50 AIRCRAFT J75-P-19W ND RUNUP	<u>.</u> _		OPER ID SI	ERATION IDLE, 6	8% RPM ENGINE	ΣW			METE TE BA NE OELT	OROLOGY MP AR PRESS IL HUMID	678 SS =2 ID =	9.92 7.0 0.08	H HG	X400 MG	AUN UI AIRCRAFT OPERATION PROFILE V 31 MAR 76	_ w	CODE 07 CODE 01 RSION	77 1013 A
BAND CENTER FREG (HZ)	0	10	20	30	3	5.0	99	A D Z	NGLE (DEGRE 90	ES)	110	120	130	140	150	160 1	170	180
20	>49	>69	62	63	65		63	99	29	49	99	67	29	69	68	29	99	49	9
63	>+9	>69	654	>99	69		>09	99	65	29	99	68 <	68	29	29	99	>99	634	2
9.0	10	69	29	69	7.0		68	99	69	7.0	20	20	72	72	7.1	69	29	63<	-
100	99	69	99	7.0	7.1		69	69	7.1	72	72	72	72	73	72	71	69	624	0
125	60	20	20	7.1	17.		9 9	72	73	14	73	17	7.	92	73	23	0.2	62	00
707	7 80	1 69	2 5	10	± 5	22	27	t &	0 %	2.1	9 12	75	16	14	2 5	68	60	294	550
250	19	71	20	9 9	65		62	9	9	69	7.7	73	75	92	69	49	49	584	M
315	7.0	47	72	99	63		7.0	7.1	20	73	72	14	11	11	7.1	9	49	96	N
400	14	75	73	7.1	74		7.1	7.1	72	72	73	75	75	92	69	99	62	25	504
200	11	92	73	14	92		69	68	7.0	7.1	72	71	14	72	29	63	62	58	>64
630	73	73	72	73	72		7.0	68	20	99	7.0	69	14	7.1	69	63	63	28	47
800	7.1	99	7.1	69	22		69	69	68	99	69	99	68	29	63	62	62	96	45
1000	7.0	29	89	72	73		89	+9	29	40	65	99	68	89	69	65	69	66	48
1250	62	9.0	15	52	62		92	14	69	7.1	7.1	69	7.1	47	7.1	7.1	20	29	26
1600	48	96		83	92		15	78	20	15	15	7.4	7.1	73	72	7.1	20	99	26
2000	83	83	82	8.0	11		1.4	72	20	72	7.1	20	69	20	99	29	29	9	53
2500	81	8.0		81	80		72	69	69	99	72	69	68	69	99	65	99	09	51
3150	75	78		91	19		69	29	69	29	7.1	7.1	7.0	69	69	49	63	58	64
4000	11	81		22	80		71	0.2	69	69	72	72	14	14	89	29	49	9	20
2000	92	14	92	14	4.2		66	69	10	69	89	29	68	89	49	61	09	25	46
6300	72	73		20	72		69	49	49	49	29	29	29	89	62	61	66	53	45
8300	0.2	69	69	89	20		62	63	29	49	29	29	68	69	63	09	25	51	43
10000	69	49		63	† 9		28	9	23	60	69	49	99	99	61	25	24	24	40
OVERALL	0							1	1									-	-

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

NOISE SOURCE/SUBJECT! F-1050 AIRCRAFT ENG. J75-P-19H GROUND RUNUP	0000	A FUNCTION	90	LE	AND DIS	DISTANCE	FROM SO	SOURCE) OMEGA	74-00	OMEGA 8.2 TEST 74-004-023	
DISTANCE	AI A	SUBJECT: AIRCRAFI P-19M NUP			OPERA II	DERATION: IDLE, 66 SINGLE E	68% RPM ENGINE			2000	METEOROLOGY: TEMP BAR PRES REL HUMI DELTA N =	PRESS HUMID	= 59.92 = 29.92 = 70	9 F N N N N N N N N N N N N N N N N N N	10	AIRCOPER 31 PROFE	AIRCRAFT COPERATION COPERATION COPERATION COPERATION COPERATION COPERATION COPERATE VER	SOO	DE 077)
(FEET)	0	70	50	36	64	20	6.0	7.0	ANGLE	E (DEGREES) 90 100	3EES)	110	120	130	140	150	160	170	180
200 104	04.9 1	105.8	104.5		104.3	103.0	7.76	98.0	96.5	97.3	99.2	99.0	100.2	100.2	95.4	93.8	92.2	87.6	78.4
	2.7 1	03.4	102.3	1.8	101.9	100.8	95.4	95.8	94.2	95.0	96.8	1.96	6.76	6.76	93.1	91.5	90.0	85.3	76.1
315 10	100.4 1	0110	100.0		99.5	98.4	93.1	93.5	91.8	92.7	4.46	94.3	95.5	95.5	2.06	89.1	87.7	83.0	73.8
	98.0	98.7	97.6		97.0	96.0	30.7	91.2	89.3	70.06	91.9	91.8	93.0	93.0	88.2	9.98	85.3	80.6	71.4
	9.6	96.3	95.1		4.46	93.5	88.2	88.7	86.7	87.9	89.3	89.1	90.3	90.3	85.6	84.0	82.9	78.2	68.9
	93.0	93.7			91.7	6.06	85.0	86.2	84. 0	85.4	86.6	86.3	87.5	87.5	82.9	81.5	80.3	75.6	66.3
900	3.3	91.1	(T)		89.0	88.1	85.9	83.5	81.2	82.7	83.8	63.3	84.5	84.5	80.2	18.8	9.22	73.0	63.4
															-				
1000	81.5	80.5	2.18	86.3	9 9 9	2008	80.1	80.0	78.5	6.67	900	2 00	81.3	81.3	***	6.67		10.1	*
		85.3	84.5	83.5	85.8	95.0	77.1	17.8	75.0	16.9	11.1	17.2	17.8	17.9	74.3	72.9		67.1	57.5
	81.2	85.2	81.0	83.0	4.62	78.7	73.8	74.7	71.7	73.7	74.5	73.9	74.1	4.47	71.1	2.69	9	63.8	53.7
		78.8	77.1	16.6	15.7	74.9	4.07	71.2	68.1	70.3	71.0	70.3	10.6	71.0	9.19	66.1	-	60.3	49.5
		75.1	74.0	72.9	71.6	70.8	9099	67.5	64.1	66.5	67.2	66.5	66.5	67.0	63.7	62.2		26.4	44.5
		71.0	6.69	68.8	6.99	66.2	62.4	63.4	59.8	62.2	65.9	62.1	65.5	62.6	29.4	57.9	6	51.9	38.7
	9.59	6.99	4.59	64.3	61.8	61.6	57.8	58.8	55.0	9.79	58.5	57.4	57.9	6.75	24.4	53.0	_	6.94	32.4
		61.4	4.09	59.5	96.4	9.95	52.6	53.5	49.2	52.3	52.8	52.0	52.7	52.5	0.64	47.0	-	9.04	22.1
6300 5		55.3	94.6	53.4	50.8	50.9	6.94	1.24	45.5	45.9	46.3	45.5	46.8	46.5	41.9	40.5	S	33.8	11.3
8300 4	8.8	1.64	49.5	47.3	4 4.0	43.5	40.7	40.7	37.2	38.7	39.1	38.3	41.5	40.3	35.1	33.7	9	55.4	
		-	1				1		1				!	i					
		41.9	49.7	39.0	38.4	36.0	33.1	32.0	30.3	31.8	32.8	32.1	35.3	34.0	26.3	25.0	25.7	10.1	
		32.0	59.6	6	31.6	28.1	21.5	19.3	21.5	21.7	24.1	23.3	24.5	26.8	15.1	16.2	15.8		
	23.0	55.5	17.9	17.6	55.9	16.0	10.0	6.5	11.2	12.0	15.3	13.6	18.7	16.8	4.0	4.7	5.9		
20000 15		10.4	6.1	7.2	11.3	3.8			6.	2.2	6.5	3.8	7.7	6.7					
	1.2																		

NOISE SOURCE/SUBJE F-1050 AIRC ENG. J75-P-19W GROUND RUNUP DISTANCE	CE/SI		A FUNCTION OF	ANGLE !	AND DIS	2.	FROM SO	SOURCE									TEST 74-004-023	4-023	
DISTANCE	RUNC	SOURCE/SUBJECT: 1050 AIRCRAFT 16. J75-P-19M			OPER	OPERATION: IDLE, 68% XPM SINGLE ENGINE	BY RP ENGINE			2222	METEOROLOGYS TEMP BAR PRES REL HUMI DELTA N =	. 000	= 59.92 = 70 0 08	Z IN HG		AIRC OPER PROF 31 H	RUN 01 ARCRATIC CODE 0 OPERATION CODE 0 PROFILE VERSION 31 MAR 76 PAGE E1	CODE 0 CODE 0 RSION	01013
	•	3	26	30	0,7	50	0.9	2	ANGLE 80		(DEGREES) 90 100	110	120	130	140	150	160	170	180
		107.6		106.	105.7	104.1	99.0	6.66	97.2		100.6	100.4		101.8		95.1	92.2		78.4
315 1	101.6		101.9	101	101.0	99.5	94.46	95.4	92.5	94.1	95.9	1006	97.1	97.1		4.06			73.8
		-		99.	98.4	97.1	95.0	93.1	90.0	91.7	93.4	93.2	9.46	9.46		6.78			71.4
	8.96	93.1		96.5	45.8	94.6	89.5	90.6	87.4	89.3	200	90.5	91.9	91.9	86.7	85.4	82.9	79.3	689
900	91.6			91.	90.4	89.5	84.2	85.4	81.9	84.0	85.2	84.7	86.1	86.1		80.1			63.4
19.0	86.7	90.2	89.1	88.	87.4	86.3	81.4	82.7	78.9	81.2	82.3	81.6	82.9	82.9	78.6	77.2	74.8	71.3	60.4
	85.7			85.1	84.3	83.1	78.4	79.7	75.7	78.2	79.2	78.5	19.4	4.62	75.5			68.2	57.2
	84.5	84.1		81.	80.0	19.7	75.1	76.6	72.4	75.0	15.9	75.3	15.6	76.0	72.3		68.6	6.49	53.7
	19.0			78.	77.1	76.0	71.7	73.1	68.8	71.6	72.4	71.7	72.2	72.6	68.7			4.19	49.5
5500	75.3		70.0	74.	73.0	71.9	6.79	4.69	64.8	67.8	68.6	67.9	68.1	68.5	8.49			57.3	44.5
	71.3			70.	68.4	67.3	63.7	65.3	60.5	63.6	64.3	63.5	64.1	2.49	9.09			53.1	38.7
	9.99			62.	65.0	65.4	58.8	60.3	92.6	9896	59.3	58.5	59.1	59.1	55.3	_		47.8	32.4
	61.3			60.	57.5	57.0	53.3	24.6	49.6	53.1	53.7	55.9	53.6	53.5	8.64	_		41.3	22.1
	25.4	56.5	55.4	54.	51.4	6.05	47.4	48.5	45.8	40.4	46.8	46.1	4.7.4	47.1	45.4	41.0	39.5	34.3	11.3
80.00	+9.1	50.1	48.3	47.	44.9	43.8	41.0	41.1	37.4	39.0	39.4	39.6	41.8	9.04	35.3	34.0	32.6	25.7	.5
10000	43.8		40.7	39.	38.4	36.0	33.1	32.0	34.3	31.8	32.8	32.1	35.3	34.0	26.3		22.7	10.1	
	33.0				31.6	28.1	21.5	19.3	21.5	21.7	24.1	23.3	28.3	26.8	15.1	16.2	12.8		
	23.0		17.9	17.	22.9	16.0	10.0	6.5	11.2	12.0	15.3	13.6	19.7	16.8	4.0		5.9		
	12.1			7.	11.3	3.8			6.	2.2	6.5	3.8	7.7	2.9					
	1.2																		

NOISE SOURCE/SUBJECT: F-1050 AIRCRAFT ENG. J75-P-19M GROUND RUNUP		LONG TON	9	ANGLE A	AND DIS	DISTANCE	FROM S	SOURCE								TEST :	UMEGA 8.2 TEST 74-004-02	14-023	
	E SOURCE/SUBJE F-1050 AIRC ENG. J75-P-19M GROUND RUNUP	JECTI VIRCRAF 194			O PER	OPERATIONS IDLE, 68% SINGLE ENG	58% RPM ENGINE			20000	METEOROLOGYS TEMP BAR PRES REL HUMI	000	= 59.92 = 70 = 70	N N N N N N N N N N N N N N N N N N N		AIRCO OPER OPER OPER OPER OPER OPER OPER OPE	DA RAFI RATION TLE VE TAR 76	-) RUN 01 AIRCRAFT CODE 07 OPERATION CODE 01 PROFILE VERSION 31 MAR 76 PAGE F1	01013
DISTANGE (FEET)		10	26	36	3	5.0	0.9	2.0	ANGLE		(DEGREES) 90 100	110	120	130	146	150	160	170	180
200	92.7	93.4	92.1	91.1	93.4		45.1	84.8	82.3	83.6	84.8	84.1	6.48	85.2	81.2	80.2	79.3	75.0	65.0
250	90.5	91.2	89.8	84.9	88.1		82.9	95.6	80.1	81.4	95.6	81.9	82.7	83.4	79.0	78.0	77.2	72.9	62.8
315	2.00		85.4	80.7	82.8	87.0	78.5	78.2	75.6	79.2	78.0	79.6	78.1	78.4	76.7	73.5	72.7	70.7	54.4
200	83.6		83.0	82.0	01.0		76.1	75.9	73.2	74.6	75.7	24.9	75.7	76.1	72.1	71.2	70.4	66.1	56.1
630	31.2		9.00	79.	78.5		73.8	73.5	76.8	72.3	73.2	72.5	73.3	73.6	2.69	68.89	68.0	63.8	53.7
909	78.7	79.3	78.1	77.0	6.52		71.3	71.0	66.3	69.8	10.7	6 • 69	70.8	71.1	67.2	66.3	9.59	61.3	51.5
1000	76.1	7.97	15.4	74.	73.2		7.80	68.89	65.8	67.3	68.1	67.3	68.2	60.6	2.49	63.8	63.0	58.8	48.5
1250	73.3		72.7	71.	70.3		66.1	65.8	63.1	9.49	65.3	9.49	65.5	69.6	62.0	61.1	4.09	56.2	46.0
1600	70.4	71.0	9.60	68.	67.3		63.3	63.0	60.3	61.8	65.5	61.8	62.8	63.1.	59.5	58.3	57.6	53.4	43.1
2000	67.3		0.99	05.	2.49		66.3	60.1	57.4	58.9	59.5	58.8	6.65	60.1	2.95	92.4	94.6	20.5	40.1
2500	9.40	6+• 5	63.3	62.	60.8		57.2	56.9	54.0	999	56.3	52.5	56.8	6.99	53.0	55.5	51.5	47.3	36.9
3150	67.3	6.69	29.6	58.5	51.5		53.7	53.3	50.9	52.1	52.7	51.9	53.4	53.4	49.5	48.8	48.1	43.9	33.4
2004	50.3	56.9	200		53.3		6.64	43.5	47.1	78.5	48.9	47.9	49.5	49.5	12.5	45.0	44.3	40.5	29.6
0000	21.0	4.76	21.0	2000	49.1		1.00	1004	46.3	40.0	**	45.0	45.0	7.64	41.5	40.9	7004	2001	4.00
9000	41.6	42.0	40.0	39.9	39.9	38.5	36.3	35.3	34.2	34.5	35.5	34.0	36.9	36.4	32.3	31.5	30.9	26.6	15.9
10000	36.1	36.3	34.8	34.4	35.0		31.1	59.9	29.7	29.7	30.9	30.2	32.7	31.9	27.4	26.3	25.7	21.2	10.7
12500	30.4		28.8	28.	29.8		25.7	24.3	25.3	24.7	26.0	25.5	28.3	27.2	22.3	20.7	20.1	15.4	5.5
16606	54.6		22.8	22.	24.3		19.9	18.6	19.9	19.5	50.9	20.7	23.4	25.2	17.0	14.9	14.1	9.5	
23036	18.7	18.3	16.9	17.3	18.5	16.2	14.0	12.8	14.4	14.2	15.5	15.6	18.2	17.1	11.6	9.0	8.0	5.9	
25000	15.5		10.7	1007	12.3		7.7	7.0	8.5	9.8	9.8	10.1	12.5	11.6	6.0	3.2	1.9		

UNCEESUBALECTI (UPERATION	F-105 F-105 ENG.			10 110 110 110 110 110 110 110 110 110	ANGLE A	AND DISTANCE		FRO4 S	SOURCE) TEST	74-00	4-023	
3 40 50 60 70 8u 90 10 120 130 140 150 160 93.9 95.3 94.1 93.0 91.8 90.1 10 120 130 140 150 160 70 160 70 160 7		RCE/SU D A J75-P- D RUNU	IRCRAF 19M	_		OPERA		8% APM ENGINE			2222	ETEORO TEM BAR BAR ELTA N	- SI	11110	T H X		PROFE	RAFT RATION ILE VE IAR 76	CODE CODE C	077 01013 A
93.9 95.3 94.1 93.0 91.8 90.3 86.4 86.7 33.0 84.9 86.3 85.5 86.5 86.8 82.4 81.5 79.3 77.2 93.1 91.9 91.8 93.0 91.8 90.3 86.4 86.7 33.0 84.9 86.3 84.1 83.3 84.5 81.5 77.9 77.2 77.2 91.8 81.0 91.8 91.8 91.8 91.8 91.8 91.8 91.8 91.8	DISTANCE		10	20	30	0,	50	9	7.0	ANGL	\$ 111	2EES)	:	120	130	140	150	160	170	180
91.7 93.1 91.9 91.8 89.6 88.1 84.5 84.5 81.8 62.8 84.1 83.3 84.5 84.5 81.2 77.1 77.2 89.8 89.8 89.8 87.8 87.8 93.8 87.8 93.8 87.9 91.8 81.0 82.3 77.1 75.0 87.2 89.8 89.8 89.8 87.2 89.8 87.2 89.8 87.2 89.8 87.2 89.8 87.2 89.8 87.2 89.8 87.2 89.8 87.2 89.8 87.2 89.8 87.2 89.8 87.2 89.8 87.2 89.8 87.2 89.8 87.2 89.8 87.2 87.2 77.1 75.0 84.9 80.2 85.0 83.9 82.5 81.1 77.4 77.6 73.9 77.1 75.3 77.2 77.3 77.5 77.5 77.5 77.5 77.5 77.5 77.5	200	93.9	95.3	94.1	93.0	91.8	90.3	86.4	86.7		84.9	86.3	85.5	86.5	86.8	82.4	81.5	79.3	76.2	65.0
89.5 90.8 89.6 60.5 87.3 85.8 02.0 82.3 78.6 80.5 81.8 81.0 82.0 82.3 77.9 77.1 77.1 82.0 83.2 84.9 86.2 84.9 81.1 77.4 77.4 77.4 77.4 77.4 77.4 77.4 7	250	91.7	93.1	6.16	90.8	9.68	88.1	84.2	84.5	80.8	95.9	84.1	83.3	84.3	84.5	80.2	79.3	77.2	14.0	65.8
84.9 80.2 85.0 83.9 82.5 81.1 77.4 77.6 73.9 76.0 77.1 76.3 77.5 77.5 77.5 77.5 77.5 77.5 77.5 77	315	89.5	90.4	89.6	86.5	87.3	85.8	32.0	82.3	78.6	80.5	70.5	81.0	82.0	82.3	77.9	77.1	75.0	71.8	60.6
82.5 83.7 82.6 81.5 81.0 78.6 75.1 75.4 71.5 73.6 74.7 73.9 74.9 75.2 70.9 70.1 68.0 80.0 81.2 80.1 78.9 77.3 72.4 72.7 73.9 77.4 76.3 74.6 77.3 72.6 72.1 71.3 72.4 72.7 68.4 67.7 65.6 80.0 81.2 71.4 76.3 74.6 77.4 70.5 72.6 72.9 69.6 69.6 69.5 68.7 69.8 70.2 65.9 65.1 63.0 74.6 77.7 70.5 67.4 67.7 70.5 67.4 67.7 70.5 67.9 66.8 66.0 67.1 67.4 67.2 62.4 67.0 63.0 71.7 72.8 71.7 70.6 68.7 67.6 64.6 64.6 64.6 64.9 61.0 63.1 63.9 63.0 67.1 67.4 63.2 62.4 60.4 71.7 72.8 71.7 70.6 68.7 67.6 64.6 64.6 64.6 64.6 64.6 64.6 64	5.00	84.9	86.2	85.0	83.9	82.5	81.1	77.	77.6	73.9	76.0	77.1	76.3	77.3	77.5	73.3	72.5	70.4	67.3	56.1
80.0 81.2 80.1 78.9 77.3 7b.0 72.6 72.9 69.0 71.1 72.1 71.3 72.4 72.7 68.4 67.7 65.6 77.5 78.5 77.4 76.3 74.6 73.4 70.1 70.4 66.5 68.6 69.5 68.7 69.8 70.2 65.9 65.1 67.0 71.5 71.5 71.5 71.5 71.5 67.6 64.6 64.9 61.0 63.1 63.0 67.1 67.4 63.2 62.4 61.4 71.7 72.8 71.7 72.8 71.7 70.5 64.5 61.6 64.9 61.0 63.1 63.0 67.1 67.4 63.2 62.4 61.4 71.7 72.8 72.7 72.0 57.7 56.9 58.3 58.5 54.5 57.5 57.8 57.8 57.8 57.8 57.0 57.0 57.7 56.9 58.3 58.8 58.7 74.1 72.8 72.1 72.8 72.1 72.8 72.1 72.1 72.8 72.1 72.1 72.1 72.1 72.1 72.1 72.1 72.1	630	82.5	83.7	82.6	81.5	83.0	78.6	75.1	75.4	71.5	73.6	74.7	73.9	74.9	75.2	20.9	70.1	68.0	6.49	53.7
77.3 78.5 77.4 76.3 74.6 73.4 70.1 70.4 56.5 68.6 69.5 68.7 69.8 70.2 65.9 65.1 63.0 74.6 75.8 71.7 70.5 67.4 67.7 03.8 65.9 66.8 66.0 67.1 67.4 63.2 62.4 60.4 71.7 72.8 71.7 70.5 68.7 67.6 64.6 64.9 61.0 63.1 64.3 64.5 60.4 59.6 57.6 68.6 69.5 68.3 64.5 61.6 62.0 58.2 60.2 61.0 60.2 61.5 61.7 57.4 59.6 57.6 68.6 69.7 08.6 67.5 65.6 64.5 61.6 62.0 58.2 60.2 61.0 60.2 61.5 61.7 57.4 56.7 54.6 61.6 62.3 64.1 66.3 64.1 66.3 64.1 66.3 64.1 66.3 64.2 61.2 61.0 60.2 61.5 61.7 57.4 56.7 54.6 61.6 62.3 64.1 66.3 64.1 58.4 58.8 55.0 57.7 56.9 58.3 58.5 54.2 53.5 51.5 61.6 60.4 58.7 57.5 55.0 57.7 56.9 58.3 58.5 54.2 57.5 59.0 57.5 59.0 57.7 56.9 58.3 58.5 54.2 57.4 56.1 44.3 57.6 49.2 57.6 53.3 57.1 49.9 48.7 46.5 46.3 47.6 49.6 45.0 49.1 50.8 57.8 57.8 57.8 57.8 57.8 57.8 57.8 57	800	90.0	81.2	80.1	78.9	77.3	76.0	72.6	12.9	0.69	71.1	72.1	71.3	72.4	72.7	4.89	67.7	9.59	65.5	51.5
74.6 75.8 74.7 73.5 71.7 70.5 67.4 67.7 03.8 65.9 66.8 66.0 67.1 67.4 63.2 62.4 60.4 71.7 72.8 71.7 70.5 67.4 67.7 03.8 65.9 66.8 66.0 67.1 67.1 67.4 63.2 62.4 60.4 71.7 72.8 71.7 70.5 64.5 64.6 64.9 61.0 63.1 64.3 64.5 61.7 57.4 59.6 57.6 65.5 65.5 64.5 64.5 64.9 61.0 63.1 64.3 64.5 61.7 57.4 59.6 57.6 65.3 66.4 65.3 64.1 62.3 61.1 58.4 58.8 55.0 57.0 57.7 56.9 58.3 58.5 54.2 57.5 51.5 61.6 60.4 58.7 57.5 55.0 57.5 56.9 58.3 58.5 54.2 57.5 51.5 61.6 60.4 58.7 57.5 57.5 57.9 56.9 58.3 58.5 54.2 57.5 57.5 57.5 57.5 57.5 57.5 57.5 57	14.40	77.3	78.5	77.4	76.3	74.6	73.4	76.0	70.4	56.5	68.6	69.5	68.7	69.8	20.2	65.9	65.1	63.0	50.0	48.6
71.7 72.8 71.7 70.6 68.7 67.6 64.6 64.9 61.0 63.1 63.9 63.1 64.5 64.6 60.4 59.6 57.6 68.6 69.7 68.6 67.5 65.6 64.5 61.0 62.0 58.2 61.0 60.2 61.5 61.7 57.4 56.7 54.6 65.6 65.6 65.6 65.6 65.6 65.6 65.6	1250	74.6	75.8	74.7	73.5	711.7	70.5	67.4	67.7	03.8	62.9	66.8	66.0	67.1	67.4	63.2	62.4	60.4	57.3	46.0
66.6 69.7 b8.6 67.5 65.6 64.5 61.6 62.0 58.2 60.2 61.0 60.2 61.5 61.7 57.4 56.7 54.6 65.3 64.1 62.3 61.1 58.4 58.8 55.0 57.0 57.7 56.9 58.3 58.5 54.2 53.5 51.5 61.6 60.4 68.1 57.5 55.0 57.0 57.7 56.9 58.3 58.5 54.2 53.5 51.5 61.6 60.4 58.7 57.5 55.0 57.0 57.7 56.9 58.3 58.5 54.2 57.5 57.5 55.0 57.0 57.0 57.0 57.0 57.0	16 36	71.7	72.8	71.7	70.6	68.7	67.6	9.49	6.49	61.0	63.1	63.9	63.1	64.3	9.49	4.09	9.69	57.6	54.5	43.1
65.3 66.4 65.3 64.1 62.3 61.1 58.4 58.8 55.0 57.0 57.7 56.9 58.3 58.5 54.2 53.5 51.5 51.5 61.6 60.4 58.7 57.5 55.0 55.2 51.0 57.4 54.2 54.2 55.3 54.9 55.0 57.7 50.1 48.1 57.5 55.0 57.5 55.0 57.5 57.5 57.5 57.5	2000	69.6	2.69	68.6	67.5	65.6	64.5	61.6	62.0	58.5	60.2	61.0	60.5	61.5	61.7	57.4	26.7	9.45	51.6	40.1
61.6 62.7 61.6 60.4 58.7 57.5 55.0 55.2 51.0 53.4 54.2 53.3 54.9 55.0 50.7 50.1 48.1 57.3 58.3 57.1 56.0 50.5 50.9 51.0 47.0 49.2 51.0 51.8 50.8 46.7 46.1 44.3 57.3 57.3 57.4 46.7 46.1 44.3 57.4 46.7 46.1 40.2 47.6 43.8 41.0 41.1 38.6 59.6 45.6 45.6 41.4 41.3 37.4 36.8 35.7 41.0 41.1 38.5 59.6 40.5 39.4 41.4 41.3 37.4 36.8 35.7 41.0 40.2 38.7 36.5 35.7 34.8 35.8 34.9 37.2 36.7 32.5 31.8 30.9 36.1 30.3 34.8 34.4 35.0 33.4 31.1 29.9 29.7 29.7 30.9 30.2 32.7 31.9 27.4 26.3 25.7 30.9 30.2 22.3 20.7 20.1 24.6 24.3 22.8 22.9 24.3 25.0 24.7 26.6 25.5 28.3 27.2 22.3 20.7 20.1 24.6 24.3 22.8 22.9 24.3 10.9 19.9 19.5 20.9 20.7 23.4 22.2 17.0 14.9 14.1 18.7 14.3 16.9 17.0 18.5 18.2 17.0 18.5 18.2 17.1 11.6 9.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0	2500	65.3	4.99	65.3	64.1	62.3	61.1	58.4	58.8	55.0	57.0	57.7	6.99	58.3	58.5	54.5	53.5	51.5	48.5	36.9
57.3 58.3 57.1 56.0 54.5 53.3 50.9 51.0 47.5 49.2 50.0 49.0 50.8 50.8 46.7 46.1 44.3 52.6 53.5 52.2 51.1 49.9 48.7 46.5 46.3 43.3 44.6 45.4 44.4 46.2 46.2 42.2 41.7 40.2 47.4 48.1 46.7 45.8 45.0 43.8 41.5 41.1 38.6 39.6 40.5 39.4 41.4 41.3 37.4 36.8 35.7 41.9 42.4 41.0 40.3 40.2 38.7 36.5 35.7 34.8 35.7 41.9 42.4 41.0 40.3 40.2 38.7 36.5 35.7 34.8 35.7 31.8 30.9 30.9 33.2 37.2 36.7 32.5 31.8 30.9 30.4 30.3 28.8 28.7 29.8 28.0 24.7 29.7 20.9 20.7 20.9 20.7 20.8 22.8 22.9 24.3 22.3 19.9 18.6 19.9 19.5 20.9 20.7 23.4 22.2 17.0 14.9 14.1 11.6 9.0 8.0 18.7 14.3 17.0 18.5 16.2 14.0 12.8 14.4 14.2 15.5 15.6 18.2 17.1 11.6 9.0 8.0	3150	61.6	62.7	61.6	9.09	58.7	51.5	55.0	55.2	51.6	53.4	54.5	53.3	6.45	55.0	2005	50.1	48.1	45.1	33.4
52.6 53.5 52.2 51.1 49.9 48.7 46.5 46.3 43.3 44.6 45.4 44.4 46.2 46.2 42.2 41.7 40.2 47.4 48.1 46.7 45.8 45.0 43.8 41.0 41.1 38.6 39.6 40.5 39.4 41.4 41.3 37.4 36.8 35.7 41.9 42.4 41.0 40.3 40.2 38.7 36.5 35.7 34.8 35.7 41.9 42.4 41.0 40.3 40.2 38.7 36.5 35.7 34.8 35.7 41.9 42.4 41.0 40.3 40.2 38.7 36.7 32.5 31.8 30.9 36.1 36.3 37.2 36.7 32.5 31.8 30.9 30.9 30.1 36.1 36.3 27.4 26.3 25.7 30.4 30.3 28.8 28.7 29.8 28.0 25.7 24.3 25.0 24.7 26.6 25.5 28.3 27.2 22.3 20.7 20.1 24.6 24.3 22.8 22.9 24.3 22.3 19.9 18.6 19.9 19.5 20.9 20.7 23.4 22.2 17.0 14.9 14.1 18.7 16.3 17.0 18.5 18.2 17.0 18.5 18.2 17.0 18.5 18.2 17.0 18.5 18.8 14.4 14.2 15.5 15.6 18.2 17.1 11.6 9.0 8.0	40.00	57.3	58.3	57.1	26.0	54.5	53.3	50.9	51.0	47.0	49.5	20.0	49.0	50.8	50.8	1.94	46.1	44.3	41.1	29.6
47.4 48.1 46.7 45.8 45.0 43.8 41.0 41.1 38.6 39.6 40.5 39.4 41.4 41.3 37.4 36.8 35.7 41.9 42.4 41.0 40.3 40.2 38.7 36.5 35.7 34.3 34.8 35.8 34.9 37.2 36.7 32.5 31.8 30.9 36.1 35.3 34.8 34.4 35.0 33.4 31.1 29.9 29.7 29.7 30.9 30.2 32.7 31.9 27.4 26.3 25.7 30.4 30.3 28.8 28.7 29.8 28.0 25.7 24.3 25.0 24.7 26.6 25.5 28.3 27.2 22.3 20.7 20.1 24.6 24.3 22.9 24.3 22.3 19.9 18.6 19.9 19.5 20.9 20.7 23.4 22.2 17.0 14.9 14.1 18.7 16.3 16.3 17.0 18.5 16.2 14.0 12.8 14.4 14.2 15.5 15.6 18.2 17.1 11.6 9.0 8.0	2000	95.6	53.5	55.5	51.1	6.64	48.7	46.5	46.3	43.3	9.44	42.4	44.4	7.94	7.94	45.2	41.7	40.2	36.7	25.4
41.9 42.4 41.0 40.3 40.2 38.7 36.5 35.7 34.8 35.8 34.9 37.2 35.7 32.5 31.8 30.9 35.1 35.3 34.8 34.9 37.2 35.7 31.8 30.9 35.1 35.3 34.8 34.4 35.0 33.4 31.1 29.9 29.7 29.7 30.9 30.2 32.7 31.9 27.4 26.3 25.7 30.4 30.3 28.8 28.7 29.8 28.0 25.7 24.3 25.0 24.7 26.6 25.5 28.3 27.2 22.3 20.7 20.1 24.6 24.3 22.8 22.9 24.3 22.3 19.9 18.6 19.9 19.5 20.9 20.7 23.4 22.2 17.0 14.9 14.1 18.7 14.3 16.9 17.0 18.5 16.2 14.0 12.8 14.4 14.2 15.5 15.6 18.2 17.1 11.6 9.0 8.0	6300	45.4	48.1	46.7	45.8	45.0	43.8	41.0	41.1	38.6	39.6	40.5	39.4	41.4	41.3	37.4	36.8	35.7	31.9	20.7
36-1 3b-3 34-8 34-4 35-0 33-4 31-1 29-9 29-7 29-7 30-9 30-2 32-7 31-9 27-4 26-3 25-7 30-4 30-3 28-8 28-7 29-8 28-0 24-7 26-6 25-5 28-3 27-2 22-3 20-7 20-1 24-6 24-3 22-9 24-3 24-3 22-9 24-3 24-3 22-9 24-3 22-9 24-3 22-9 24-3 22-9 24-3 22-9 24-3 22-9 24-3 24-3 24-3 24-3 24-3 24-3 24-3 24-3	8000	41.9	45.4	41.0	40.3	40.5	38.7	36.5	35.7	34.3	34.8	35.8	34.9	37.2	36.7	32.5	31.8	30.9	8.92	15.9
30.4 30.3 28.8 28.7 29.8 28.0 25.7 24.3 25.0 24.7 26.6 25.5 28.3 27.2 22.3 20.7 20.1 24.6 24.3 22.8 22.9 24.3 22.3 19.9 18.6 19.9 19.5 20.9 20.7 23.4 22.2 17.0 14.9 14.1 18.7 16.7 14.3 16.9 17.0 18.5 16.2 17.0 14.9 14.1 14.2 15.5 15.5 15.6 18.2 17.1 11.6 9.0 8.0	10030	36.1	36.3	34.8	34.4	35.0	33.4	31.1	29.9	7.60	79.7	30.9	30.2	32.7	31.9	27.4	26.3	25.7	21.2	10.7
24.6 24.3 22.8 22.9 24.3 22.3 19.9 18.6 19.9 19.5 20.9 20.7 23.4 22.2 17.0 14.9 14.1 18.7 18.7 16.9 17.0 18.5 16.2 14.0 12.8 14.4 14.2 15.5 15.6 18.2 17.1 11.6 9.0 8.0	12500	30.4	30.3	28.8	28.7	29.8	28.0	25.7	24.3	25.0	24.7	26.6	25.5	28.3	27.2	22.3	20.7	20.1	15.4	5.5
18.7 14.3 16.9 17.0 18.5 16.2 14.0 12.8 14.4 14.2 15.5 15.6 18.2 17.1 11.6 9.0 8.0	16000	54.6	24.3	22.8	22.9	24.3	22.3	19.9	18.6	19.9	19.5	50.9	20.7	23.4	25.2	17.0	14.9	14.1	9.5	
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20000	18.7	14.3	16.9	17.0	18.5	16.2	14.0	12.8	14.4	14.2	15.5	15.6	18.2	17.1	11.6	9.0	8.0	5.9	
7.00 U.O. 11.01 LOST LOST G.O. G.O. G.O. G.O. LOST LOST LOST G.O.	25000	12.5	12.2	10.7	1.0.7	1 2 2														

AFT (DPERATION) AFT (SINGLE ENGINE) TEMP PRESS = 59 FT (SINGLE ENGINE) DELTA N = 0.0 U DB TO N TO	DISTANCE = 250 FEET					DOMEGA 8.2 TEST 74-004-023
10 10 10 10 10 10 10 10	SOURCE/SUBJECT: 1050 AIRCRAFT 5. J75-P-19W	OPERATION: IDLE, 68% RP. SINGLE ENGIN		the state of the s	LHX	PHPR
10 (P=PNLT	A=AL		T=ALT	
10 (50 (70 (70 (70 (70 (70 (70 (70 (7		3	7		• 4	0
20 (4.0 (50 (70 (70 (70 (70 (70 (70 (70 (7		1 4 A A A A A A A A A A A A A A A A A A				
20 (4.0 (5.0 (7.0 (9.0 (1.0 0 (1					· ·	
30 (***) 50 (***) 70 (***) 80 (***) 100 (***) 110 (***) 120 (***) 140 (***) 150 (***) 160 (***) 170 (***)		•	•		- A	۵.
110 (10 (10 (10 (10 (10 (10 (10 (10 (10	30 (A. T	
50 (70 (80 (110 (130 (140 (150 (170			• •		A	a
120 (***) 140 (***) 150 (*	200				AT .	
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70 (10 (130 (15						
90 (110 (120 (130 (150 (150 (170 (170 (170 (170 (170 (170 (180 (170 (180 (1			•		. A T	•
140 (***) 150 (***) 150 (***) 150 (***) 150 (***) 150 (***) 150 (***) 160 (***) 160 (***)			• •	• •	11.	
110 (130 (130 (130 (130 (130 (130 (130 (A.T	
110 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	100 (AT	
120 (************************************	110 (• •		AT .	
130 (140 (150 (170 (170 (170 (180 (- 10 · 10 · 10 · 10 · 10 · 10 · 10 · 10	•			
ATA						
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× a	140 (•	•
A A I				AT.	· d · · · · ·	
A X X X X X X X X X X X X X X X X X X X	160 (×	• •	•
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1/3 01S	NORMALIZED 1/3 OCTAVE DISTANCE =	BAND 250	FEET	SSUKE	ובאבר											OMEGA TEST	- 00	4-023	
NOISE SOURCE/SU F-1050 AIR ENG. J75-P-19 GROUND RUNUP	SOURCE/SUBJECT SU AIRCRAFT J75-P-13M NU RUNUP	=_		OPER	RATION	RUNCE ENGIN	, 85% E	α π		1 0	ETEOROLOGY: TEMP BAR PRESS REL HUMID	648 SS = 2 10 = 0	59.92 70 70 0.08	T X	?	RUN 02 AIRCRAFT OPERATION PROFILE V 31 MAR 76 PAGE C2	_ w	CODE	077 01018
BAND CENTER FREQ (HZ)		10	20	30	9	5.0	09	2 AN	S E	OEGRE 90	100 100	110	120	130	140	150	160	170	180
9	7	7.1	12	74	74		76	77	7.8	77	8	84	82	96	6	6	*		A.
63	: 2	73	16	77	11	12	22	28	90	80	8 2	83	96	91	96	96	8 8	192	8
96	75	15	92	77	11		62	8.0	81	82	83	85	88	95	16	26	98	73	82
100	7.8	62	90	80	80		81	82	63	84	98	87	68	93	66	86	98	75	81
125	80	62	81	81	81		82	84	85	98	88	88	90	93	66	96	83	73	77
160	81	82	83	82	82		85	9.4	99	88	89	90	95	16	96	93	90	2	12
200	80	96	81	80	85		82	4 6	82	96	8 6	88	06	91	91	67	73	29	2
256	20 6	90	29	9 0	61		81	200	5 0	82	200	87	90 0	06	200	81	11	614	9 9
616		20	1 4) M	10		200	0 0	62	00 8	0 0	0 0	9 6	9 6	0	101	7.	9 0	9 4
200	1 0	82		200	86		87	87	87	88	0 6	8 6	92	106	0 8	78	89	22	2 4
630	92	11	62	78	80		83	82	84	84	87	87	88	187	85	75	69	28	99
900	2	78	62	80	81		63	82	9.4	83	98	96	87	68	84	75	49	53	25
1000	6.8	7.1	73	11	92		70	73	11	92	62	80	81	82	62	72	63	51	58
1250	12	69	70	15	73		73	7.1	74	7.1	92	11	80	78	92	69	9	20	53
1600	90	82	82	81	8.0		7.8	11	11	15	9 0	13	80	9.0	15	89	63	53	61
2000	76	91	16	88	91		94	83	92	81	82	62	8.2	81	14	73	69	28	26
2500	85	86	95	85	98		83	62	81	82	83	80	80	14	11	99	29	24	52
3150	62	90	90	83	81		62	15	22	77	62	11	62	72	69	9	62	20	52
0004	87	95	81	88	83		83	11	8.0	79	80	80	8.0	73	72	63	29	24	53
2000	62	90	62	80	62		77	14	92	92	78	78	92	7.1	29	28	9	20	51
6300	62	11	25	62	78		77	73	16	11	62	7.8	11	72	29	28	28	84	20
8000	7.8	92	75	8.2	11		92	72	75	15	92	16	7.4	7.0	99	25	58	84	64
10000	73	11	20	73	7.5		11	6 9	69	20	72	12	69	65	61	25	24	45	46
I IVES NO		,			,			1	,	-							;		

XXX = EXTRAPOLATED OR INTERPOLATED SPL

	,	FUNCTION OF	N 0F		AND DI	DISTANCE	FROM S	SOURCE								TEST	TEST 74-004-023	04-023	
NOISE SOURCE F-1450 ENG. J7 GROUND	I DW Z	RCE/SUBJECT: D AIRCRAF J75-P-19M			OPER	OPERATION: ENGINE SIAGLE	RUNUP, ENGINE	85%	E da	2000	HETEOROLOGY: TEMP BAR PRES REL HUMI	PRESS HUMID	= 59 = 29.92 0 = 70	L H N	9	PROPERTY 31	AIRCRATION CODE OPERATION CODE PROFILE VERSION 31 MAR 76 PAGE D2	CODE CODE ERSION	01018
DISTANCE (FEET)	•	10	20	36	9	5.0	09	7.0	ANGLE	•	(DEGREES) 90 100	110	120	130	140	150	160	170	180
200	113.6	111.4						107.2		108.8		109.9	110.6	110.2		106.0	97.1	85.8	91.3
250	110.6	109.2	109.3	109.6	109.5	108.7	107.3	105.0	106.1	106.5	108.5	107.6	108.4	108.1	108.1	104.0	95.0	83.4	89.0
1004	106.2							100.4		101.9		102.9	104.0	103.8		99.7	90.5	78.5	84.3
200	103.7		102.3					98.0		4.66		100.6	101.6	101.5		97.5	88.1	75.9	81.7
989	101.2							95.5	4.96	6.96		98.1	99.2	99.1		95.2	85.4	73.3	79.1
930	98.5	6.96						95.9		94.1		92.6	1.96	96.6		95.8	85.6	4.07	76.3
1006	95.7	94.1					4-10	9.00	8.00	91.2	93.2	92.9	94.1	94.1	93.8	89.9	79.5	67.3	73.2
1250	92.6		91.3	89.9	91.4	90.06	88.4	87.0	87.0	88.1	90.3	90.1	91.3	91.3	90.8	86.8	76.1	64.1	69.8
1600	4.68		84.1				85.1	83.8	8 ** 8	84.9	87.3	87.1	88.3	88.4	87.8	83.2	72.8	60.7	66.1
2000	95.9						81.6	90.08	81.6	81.8	84.2	84.0	85.2	85.3	9 * * 8	79.1	69.1	56.6	62.4
2500	82.0						77.8	76.8	77.9	78.3	80.4	80.3	81.8	81.4	80.6	74.5	65.0	51.9	58.5
3150	17.7		70.5				73.7	72.8	73.8	74.2	16.4	76.3	77.8	77.1	76.2	69.3	60.3	7.94	53.6
4000	72.9						69.1	68.2	69.3	2.69	71.8	71.8	73.3	72.6	71.6	63.7	24.7	39.5	48.1
5000	9.19			04.4			64.2	63.2	9 ** *	64.8	6.99	67.0	68.5	6.79	1.99	58.6	48.4	31.2	41.8
6300	61.5	59.6	60.4				99.0	58.1	59.5	58.5	61.8	61.9	63.4	65.9	61.6	55.9	41.4	21.3	33.1
8000	54.9	53.	54.5				24.7	53.9	54.9	55.5	57.8	57.8	59.5	58.0	57.1	48.6	35.8	15.1	27.1
10000	47.2	46.0	47.6	46.0			50.0	4.64	50.5	51.0	53.3	53.5	55.2	54.5	53.6	43.8	27.8	2.9	19.5
12500	37.1						44.6	43.9	45.2	45.7	48.5	48.6	50.4	6.64	48.9	38.4	18.5		10.6
16000	30.1			32.7	36.3	34.5	38.1	37.6	38.8	40.2	42.6	45.9	45.0	44.1	43.5	32.2	9.1		2.1
20000	20.1	24.5	27.2				31.7	31.1	32.1	33.1	35.8	36.6	38.6	37.6	37.3	22.3			
2000																			

(TABLE:	TONE-	TONE-CORRECTED, PERCEI AS A FUNCTION OF ANGLE	60, P	>	ED NOISE AND DISTA		LEVEL CPNDB	DBI) IDENTIFO OMEGA	DENTIFICATIONS OMEGA 8.2 TEST 74-004-02	TION:	
(NOISE SOURCE/SUBJECT! F-1050 AIRCRAFT ENG. J75-P-194 GROUND RUNUP	E SOURCE/SUBJE F-1050 AIR ENG. J75-P-19 GROUND RUNUP	URCE/SUBJECT 8 50 AIRCRAF J75-P-19H ND RUNUP	- L		OPER	OPERATION: ENGINE SINGLE	RUNUP, ENGINE	85%	E Q	20000	HETEOROLOGY: TEMP BAR PRES REL HUMI	PRESS HUMID	=29.	59 F 92 IN H 70 %	9	PAGE TO PAGE	AIRCRAFT COPERATION COPERATION COPROFILE VER	ODE	077 01018
(DISTANCE	9	10	26	30	G.	5.0	0.9	22	ANGLE		(DEGREES)	110	120	130	140	150	160	170	180
590	116.2	2 113.8	114.2	114.		113.4	111.2	8.00			~		110.6	111.7	10	108.0	98.9	87.2	93.3
(250	114.0			111				9.99			10		108.4			106.0	96.8	84.8	91.1
(315	111.7			169.3	109.6	108.9	106.6	104.3	134.8	164.2	107.2	105.3	106.2		107.3	103.9	94.5	82.3	88.8
004	109.4			106.				102.0			6		104.0	~	N	101.7	92.2	6.62	86.3
000	106.9	3 104.5	105.3	104.				9.66					101.6	•	•	88.5	89.8	77.3	83.8
630	104.4	-		101.				97.1			6		99.5		+	97.2	87.2	74.7	81.2
000	101.7	1 99.3		98.3		98.9	0.96	4.46			~		2.96	_	0	1.46	84.4	71.8	78.4
•																			
1900	98.8			95.	96.8	96.1	93.1	91.6	91.9	91.2	94.3	95.9	94.1	95.5	95.1	91.9	81.2	68.7	75.2
1250	95.8			95.	93.8	93.1	0.06	88.6	88.8	88.1	91.3	30.1	91.3	92.7	92.1	88.8	17.9	65.5	71.8
1500	95.6		2.06	68	90.5	6.68	86.0	85.3	85.8	6.40	88.3	87.1	84.3	89.8	89.1	85.2	14.5	62.1	68.2
5030	89.1			85.	87.1	86.5	83.3	82.2	82.7	81.8	85.2	0 . 40	85.2	86.7	95.9	81.1	6.02	6.15	64.5
(5500	85.2				83.2	85.6	18.4	78.4	78.9	78.3	81.5	80.3	81.8	85.8	82.0	16.4	2.99	53.3	60.3
3150	80.0			76.	19.0	78.3	75.3	74.3	4.9	24.5	17.4		77.8	78.6	77.6	71.3	62.0	47.6	9999
9004)	75.5	5 73.2		71.	73.7	73.0	20.5	69.5	70.1	2.69	72.7	71.8	73.3	73.8	72.7	65.3	56.1	40.3	1.64
2000	69.6			65.	67.9	07.2	65.2	2.49	65.0	64.8	9.29		58.5	68.7	61.5	59.8	49.5	32.0	43.1
6330	62.6	6 . 69 9	61.4	29.	61.4	60.9	9.69	58.7	9.69	59.5	62.3		63.4	63.4	62.1	53.7	42.1	21.9	34.0
0008	55.5			55.	24.7	54.1	55.0	24.5	59.5	52.5	58.0	57.8	59.5	59.1	57.9	0.64	36.2	12.4	28.1
_																			_
13336	*7.2		47.6	\$	49.5	47.8	50.0	40.4	50.5	51.0	53.3	53.5	55.5	54.5	53.6	43.8	27.8	5.9	19.5
12500	37.1		41.1	39.	43.1	41.7	44.0	43.9	45.2	45.7	48.5	48.6	53.4	6.64	6.84	38.4	18.5		10.8
16300	30.1			32.7	36.3	34.5	38.1	37.6	38.8	40.5	45.6	45.9	45.0	44.1	43.5	32.2	9.1		2.1
(20000	20.1			24.	29.3	27.8	31.7	31.1	32.1	33.1	35.8	36.6	38.6	37.6	37.3	22.3			_
(25000	7.6	13.6	16.3	13.	19.4	16.1	22.8	21.3	23.0	24.5	27.8	28.0	30.5	29.3	28.8	11.9			
																		-	-

SOUNCE/SUB 1.650 AL 6. 1.75-P-1 0.000 RUNUP 299.6 997.4 87.9	ı - ı	860.00	96 74.0 66 74.0 74.0 74.0 74.0 74.0 74.0	00 PERAL 99977 ¢ 8999311 SIEAL SIEAL	RATION E E E E E E E E E E E E E E E E E E E	88 88 88 88 88 88 88 88 88 88 88 88 88	88	# A A A A A A A A A A A A A A A A A A A	900 400 888 888 888 888 888 888 888 888 8	METEOROLOGY TEMP BAR PRE REL HUM DELTA N = 106 106 96.7 96.7 96.7 94.6 94.6 94.6 94.6 94.6 96.7 96.2 96.2 96.7	110 06 4 1 110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= 29. 0 08	59 F 70 % 130 130 97.1	146 146 93.6	A A L R C L	AIRCRAFT AIRCRAFT OPERITE VE 31 MAR 76 PAGE F2 PAGE 72 160 160 160 76.4 78.6	CODE RSION 170 69.6 67.5 63.2	180 180 180 74.6 72.5 70.5
999 97.4 97.1 90.4 90.4	!	8 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		888994 ¢	6 99 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.000000	45.99	888.2.28 885.27	900 900 900 900 900 900 900 900 900 900	REES) 100 96.7 94.6 92.4 90.2	96.3 94.2 92.1 89.9	120	130	146 95.7 93.6	150 89.4 87.4	160 80.7 78.6 76.4	170 69.6 67.5 63.2	180 74.6 72.5 70.4
99.00 97.00 995.11 990.00 97.9		46.00		97.6 93.1 90.8 90.8 86.1 85.1	996.5 992.1 693.1 67.5 67.5	200000	8691.2	8880000	994 902 902 903 903 903 903 903	96.7 94.6 92.4 90.2 88.0	96.3 94.2 92.1 89.9		97.1	95.7	89.4	78.6	69.6 67.5 65.3 63.2	74.6
992.08		00000		93.1 90.0 88.5 86.1 83.5	69.00 67.00 65.10 65.10	3 00 10 01 20	869.1	90.2 90.2 85.7	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	9000	92.1 89.9	41.16	120	93.6	* 100	16.4	65.3 63.2	70.4
92.8		90.00		90.8	69.8 67.5 65.1 82.5	10 01 20	865.9	85.7	88 85 83 5	90.2	89.9	93.2	92.9		65.3	74.3	63.2	68.3
4.06		49.4		88.5 86.1 83.5	47.5 45.1 82.5	~ 30	84.6	85.7	85.8	88.0		91.0	90.8	89.5	83.3			,
6.10		0.00		83.5	82.5	0		*	03.5	1	87.7	88.9	88.7	87.3	81.1	72.0	6000	66.1
85.4	63.6	83.5	8 2.4			*	80.0	81.0	81.1	83.3	83.1	84.4	84.2	82.8	76.3	67.2	56.1	61.5
82.7	80.9	80.8		80.9	6.62	78.8	17.6	78.6	78.7	81.6	40.7	82.3	81.9	80.4	73.7	9.49	53.5	59.1
19.8	78.1	78.1	16.6	78.1	77.2	76.2	75.1	76.1	76.2	78.5	78.3	79.6	19.62	17.8	20.9	61.9	50.8	26.5
10.8		75.1		75.2	74.3	73.5	72.5		73.6	75.9	75.8	17.1	76.9	75.2	68.0	29.0	6.7.9	53.7
13.0		7.7		7.7	11.5	2:	69.6	200	5.9	5.5	13.6	4.5	5.4.	6.27	0.40	20.0	5.5	50.0
	200	000	000	900	6.70	1.10	0000	0.10	5.0	5.0	7.0	0.10	1.0	4.6	61.5	25.6	41.5	4
1.00				000	1.00	7.40	200	***		6 9 9	6 . 2	2000	1.00	600	61.0		27.0	*
9.95		55.7		56.3	200		55.0	200	20.00	18.0	. 66	200	60.3	57.8	200	1	20.50	75.7
51.2		50.6		51.3	50.4	51.0	50.6	52.0	52.1	54.5	54.0	56.1	55.9	53.3	44.5	35.8	54.9	31.2
8000 45.3 4	1.44	45.8	45.0	6.94	6.54	6.24	6.94	48.3	48.5	50.8	51.0	55.5	55.5	8.64	41.1	32.1	21.2	27.7
	70.7			7 67	4 .4		0 27	1.1. 7	2 77	0 91	. 7 .	8 4	6 9 7	9 7 7	3.00			,,,
33.3		30.6		47.9	35.8	30.5	38.8	40.0	200	42.6	42.8	10.0	40.0	61.	34.8	24.4	13.6	20.0
27.9		31.6		33.1	3 4 5 6	34.7	34.1		35.7	17.9	34.0	10.5	30.0	37.5	30.1	20.4	9.0	16.2
22.6		26.5	25.2	27.8	26.6	29.4	28.9	29.0	30.4	32.7	32.8	34.3	33.8	32.8	26.5	16.3	2.5	12.2
25000 17.0 1	18.9	20.8	19.3	21.9	20.8	23.5	23.2	24.1	24.7	26.8	27.3	28.5	28.1	27.9	23.0	12.5	2.1	8.4

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE SOURCE/SUBJECT: (OFFCRATION: G. J75-P-19M (OFFCRAT						OME		
UNCEFSUBJECT! SINGLE ENGINE J75-P-19H LENGINE RUNUP, 85% JUL-5 97-19H LUC2.7 16J-1 100-1 93-1 99-9 99-0 96-9 94-9 104-9 98-3 95-7 95-8 96-9 97-8 96-9 97-8 96-9 97-8 96-9 97-8 96-9 97-8 96-9 97-9 96-9 97-8 96-9 97-8 96-9 97-9 96-9 97-8 96-9 97-8 96-9 97-9 96-9 97-8 96-9 97-8 96-9 97-8 96-9 97-9 97-9 97-9 97-9 97-9 97-9 97-9	JACE					I LEST	74-004-023	.023
J75-P19H ND RUNUP 102.7 16J-1 100-1 93-1 99-9 99-0 96-9 94-9 100-5 95-7 95-9 97-8 96-9 97-8 96-9 97-8 96-9 97-8 96-9 97-8 96-9 97-8 96-9 97-8 96-9 97-8 96-9 97-8 96-9 97-8 96-9 97-8 96-9 97-8 96-9 97-8 96-9 97-8 97-8 97-8 97-8 97-8 97-8 97-8 97	45.2 APM) METEOROLOGY:	L0671			AIRC	RAFT	CODE 077
102.7 103.1 100.1 93.1 99.9 99.0 96.9 1100.5 97.9 96.9 97.8 96.9 97.8 96.9 97.8 96.9 97.8 96.9 97.9 96.9 97.8 96.9 97.9 96.9 97.9 96.9 97.8 96.9 97.9 96.9 97.8 96.9 97.9 96.9 97.8 97.9 96.9 97.9 97.8 97.9 97.9 97.9 97.9 97.9 97		J GAR	RESS	29.92 IN	91	PROF	PROFILE VER	
102.7 100.1 100.1 93.1 99.9 99.0 96.9 100.5 97.9 97.9 96.9 97.8 96.9 97.8 96.9 97.8 96.9 97.8 96.6 94.7 96.6 93.3 95.5 95.6 93.2 93.5 93.5 93.5 93.5 93.5 93.5 93.5 93.5) DELTA N	HUMID =	08 80		PAGE	ST MAR 76 PAGE G2	
102.7 103.1 100.1 93.1 99.9 99.0 96.9 100.5 97.9 97.9 97.8 96.9 97.8 96.9 97.8 96.9 97.8 96.9 97.8 96.9 97.8 96.9 97.8 96.9 97.8 96.9 97.8 96.9 97.8 96.9 97.8 96.9 97.8 96.9 97.8 96.9 97.8 96.0 97.9 99.0 93.4 92.5 93.5 92.5 93.6 93.3 83.6 93.1 93.7 90.9 90.0 90.3 97.9 90.0 90.0 90.1 90.0 90.0 90.0 90.0 90	ANGLE	(DEGREES)			,	9		
102.7 103.1 100.1 93.1 99.9 99.0 96.9 100.5 97.9 96.9 97.8 96.9 97.8 96.9 97.8 96.9 97.8 96.9 97.8 96.9 97.8 96.9 97.8 96.9 97.8 96.9 97.8 96.9 97.8 96.9 97.8 96.9 97.8 96.9 97.8 96.9 97.8 96.9 97.8 96.9 97.8 97.8 97.9 91.0 91.1 89.7 90.9 91.0 07.9 91.0 91.1 89.7 90.9 91.0 07.9 91.0 07.1 84.4 85.9 86.1 87.9 87.1 80.6 87.1 80.6 87.1 80.6 87.1 80.6 87.1 80.6 87.1 80.6 87.0 87.9 80.5 80.0 07.4 77.8 75.6 77.6 76.8 77.9 80.6 77.6 76.8 77.8 77.8 77.8 77.8 77.8 77	,	,				120	100	
100.5 97.9 97.9 96.9 97.8 96.8 94.7 96.1 96.1 97.8 96.1 97.8 96.1 97.8 95.5 94.0 92.5 96.1 96.1 95.7 94.2 95.5 94.0 92.5 96.1 96.1 95.7 94.2 95.5 94.0 92.3 90.2 96.1 93.1 93.1 93.2 90.3 90.1 93.2 91.1 89.7 90.9 90.1 97.9 90.1 97.9 91.1 87.9 91.1 87.9 90.1 87.9 90.1 97.9 91.1 87.9 91.1 87.9 90.1 87.9 90.1 97.9 91.1 87.9 91.1 87.9 91.1 87.9 91.1 87.9 91.1 87.9 91.1 87.9 91.1 87.9 91.1 87.9 91.1 87.9 91.1 97.1 97	95.0		~			91.4	5	
98.3 95.7 95.7 94.5 95.5 94.6 92.5 96.6 93.3 95.6 93.3 93.4 92.2 93.2 92.3 90.0 93.4 92.2 93.2 92.3 90.2 93.6 92.6 93.6 93.1 90.0 91.1 90.9 91.1 90.9 91.1 90.9 91.1 90.9 91.1 90.9 91.1 90.9 91.1 90.9 91.1 90.9 91.1 90.9 91.1 91.2 91.2 91.2 91.2 91.1 91.2 91.1 91.2 91.1 91.2 91.1 91.2 91.1 91.2 91.1 91.2 91.1 91.2 91.1 91.2 91.1 91.2 91.1 91.2 91.1 91.2 91.1 91.1	93.4	95.5 95.6	2	95.3 96.4	95.	89.4		68.9 74.5
96.6 93.3 93.4 92.2 93.2 92.3 90.2 93.6 91.2 93.6 91.2 93.6 91.1 91.1 89.7 90.9 90.0 87.5 90.2 91.6 91.1 80.7 90.9 90.0 87.5 91.2 91.6 91.0 87.5 91.2 91.6 91.0 87.5 91.2 91.0 87.5 91.2 91.0 91.0 87.5 91.2 91.0 91.0 87.5 91.2 91.0 91.0 87.5 91.2 91.0 91.0 91.0 91.0 91.0 91.0 91.0 91.0	91.2		_		95.	87.3	~	~
93.6 91.4 91.1 89.7 90.9 90.0 07.9 91.1 88.5 88.5 87.1 88.4 87.5 85.5 65.5 65.0 63.0 63.0 63.0 63.0 63.0 63.0 63.0 63	89.0		•		90	85.2		2
91.1 88.5 88.0 87.1 88.4 87.5 85.5 85.6 85.9 85.1 88.6 83.0 83.0 83.0 83.5 81.6 83.3 82.4 80.5 80.0 77.4 77.8 75.6 77.6 76.7 77.9 80.0 77.4 77.8 75.6 77.6 76.7 77.9 80.0 77.2 77.9 77.5 77.9 80.0 77.2 77.7 72.4 77.5 77.9 77.5 77.9 80.0 77.6 77.6 77.9 80.0 77.6 77.6 77.9 77.5 77.9 77.0 77.0 77.0 77.0 77.0 77.0 77.0	86.8		_		88.	83.1		m
d8.6 d6.1 d4.4 d5.9 d5.0 d3.0 d3.6 d3.3 d3.5 d1.6 d3.3 d2.4 d0.5 d3.0 d3.4 d3.5 d1.6 d3.3 d2.4 d0.5 d3.0 d3.4 77.8 78.7 60.5 77.6 77.9 73.2 74.7 72.4 74.5 77.9 77.9 77.9 69.3 66.8 67.4 66.9 77.6 66.9 52.4 69.3 66.8 67.4 66.9 77.7 50.9 50.9 50.7 75.6 67.7 56.9 57.7 56.9 57.1 52.5 51.8 51.6 51.6 57.7 56.9 57.1 45.9 45.2 46.3 45.4 47.4 46.4 48.2 33.1 33.8 36.4 35.6 37.9 36.8 39.5 27.9 29.9 31.0 33.1 33.9 34.7	94.4					80.7	*	6
85.9 83.3 83.5 81.6 83.3 82.4 80.5 83.0 83.0 84.4 80.7 78.7 80.5 79.7 77.9 80.0 77.6 76.8 77.6 76.8 77.9 77.9 77.6 76.8 77.6 77.6 76.8 77.0 77.9 77.6 77.6 76.8 77.7 77.0 77.5 77.6 76.8 77.7 77.0 77.5 77.0 77.0 77.0 77.0 77.0	82.1		_			78.3		10
83.0 83.4 80.7 78.7 80.5 79.7 77.9 80.0 77.6 76.8 75.6 77.6 76.8 75.2 76.6 77.6 76.8 75.2 76.6 77.6 76.8 75.2 75.6 77.6 76.8 75.2 75.6 77.2 73.7 73.7 73.7 73.7 73.7 73.7 73.7	7.8.7	82.	1			75.7	*	6
80.0 77.4 77.8 75.6 77.6 76.8 75.2 75.4 75.2 73.7 72.4 74.5 73.2 73.7 72.4 74.5 73.7 72.4 74.5 73.7 72.4 73.2 70.4 69.3 69.3 69.3 69.3 69.3 60.3 62.0 61.7 58.7 56.9 57.1 58.5 51.8 51.6 50.3 52.3 51.4 52.3 45.4 47.4 46.4 48.2 33.3 34.8 36.4 35.6 37.9 36.8 39.5 27.9 29.9 31.0 31.6 33.1 33.9 34.7	17.1		~		9 79.	72.9	~	~
76.6 74.2 74.7 72.4 74.5 73.7 72.4 73.2 73.7 71.2 68.9 71.2 70.4 69.3 69.3 66.8 67.4 65.1 67.4 66.5 65.9 04.3 62.0 67.6 60.5 67.7 56.9 57.1 52.5 53.8 51.6 50.3 52.3 51.4 52.3 45.9 45.2 46.3 45.4 47.4 46.4 48.2 33.1 39.7 41.1 40.4 42.4 41.4 43.8 33.3 34.8 36.4 35.6 37.9 36.8 39.5 27.9 29.9 31.0 33.6 33.1 33.9 34.7	74.5	76.	8		3 76.	6.69		2
73.2 73.7 71.2 08.9 71.2 70.4 69.3 69.3 66.8 67.4 65.1 67.4 66.5 65.9 64.3 62.1 67.4 66.5 65.9 64.3 52.0 62.0 61.7 56.9 57.1 52.5 51.8 51.6 51.3 52.3 51.4 52.3 45.9 45.2 46.3 45.4 47.4 46.4 46.2 33.3 33.8 36.4 35.6 37.9 36.8 33.5 27.9 29.9 31.0 31.6 33.1 33.9 34.7	71.9	70.9 74.3	73.2 7	74.5 75.0	3 73,	8.99	57.7 46	46.3 52.8
69.3 66.8 67.4 65.1 67.4 66.5 b5.9 64.3 62.1 67.4 66.5 b5.9 64.3 62.1 67.7 65.0 61.7 58.7 58.9 58.1 57.1 57.1 57.1 57.1 57.2 51.8 51.6 51.3 57.1 57.3 56.9 57.1 57.1 57.3 57.9 57.3 57.9 57.3 57.9 57.3 57.9 57.9 57.9 57.9 57.9 57.9 57.9 57.9	68.8	71.	2			63.3	•	6
58.7 56.6 57.3 55.6 57.7 56.9 57.1 52.5 51.4 52.3 45.9 57.1 56.9 57.1 52.3 45.9 47.4 46.4 48.2 45.9 45.2 46.3 45.4 47.4 46.4 48.2 39.1 39.7 41.1 40.4 42.4 41.4 43.8 33.3 34.8 36.4 35.6 37.9 36.8 39.5 27.9 29.9 31.0 30.6 33.1 33.9 34.7	65.5	67.	6			58.5	2	m
52.5 51.8 51.6 50.3 52.3 51.4 52.3 45.9 47.1 56.9 57.1 52.3 45.9 45.2 46.3 45.4 47.4 46.4 48.2 39.1 39.7 41.1 40.4 42.4 41.4 43.8 33.3 34.8 36.4 35.6 33.1 33.9 34.7 57.9 59.9 31.0 31.6 33.1 33.9 34.7	67.9	. 49	2		63.	6.45	2	
52.5 51.8 51.6 50.3 52.3 51.4 52.3 45.9 45.2 46.3 45.4 47.4 46.4 48.2 39.1 39.7 41.1 40.4 42.4 41.4 43.8 33.3 34.8 36.4 35.6 37.9 36.8 39.5 27.9 29.9 31.0 31.6 33.1 33.9 34.7	57.1	59.			58.	50.5	2	
45.9 45.2 46.3 45.4 47.4 46.4 48.2 39.1 39.7 41.1 40.4 42.4 41.4 42.8 33.3 34.8 36.4 35.6 37.9 36.8 39.5 27.9 29.9 31.0 30.6 33.1 38.9 34.7	52.4	54.	9			45.3	2	
39.1 39.7 41.1 40.4 42.4 41.4 43.8 33.3 34.8 36.4 35.6 37.9 36.8 39.5 27.9 29.9 21.0 31.0 31.6 33.1 31.9 34.7	48.5	51.	0			41.5	5	10
33.3 34.8 36.4 35.6 37.9 36.8 39.5 27.9 27.9 24.7	44.3	46.			2 46.	37.5	•	
27.9 29.9 31.0 30.6 33.1 71.9 34.7	40.0	42.			8 41.	33.8		
	35.2				37.	30.1		
22.6 24.6 26.5 25.2 27.8 25.6 29.4	29.9	30.4 32.7	32.8 3	34.3 33.	8 32.8	26.5	16.3	5.7 12.2
17.0 18.9 20.0 19.3 21.9 20.8 23.5	24.1				1 27.	23.0	15	

SOURCE/SUBJECT: 1050 AIRCRAFT 10 10 10 10 10 10 10 10 10 10	1810) OMEGA 8.2) TEST 74-004-023
10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E SOURCE/SUBJECT: F-1050 ALRCRAF ENG. J75-P-19M GROUND RUNUP	COPERATIONS CENGINE SINGLE	RUNUP, 85% ENGINE	067: 59 PRESS =29.92 HUMID = 70	HG DAGE
20 6 6 6 6 6 70 6 70 6 70 70 70 70 70 70 70 70 70 70 70 70 70		P=PNLT			T=ALT
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120 (***) 150 (*				•	4
70 (80 (100 (120 (130 (140 (150 (150 (150 (150 (150 (16					
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A T A T A T A T A T A T A T A T A T A T	140 (••	• •	AT	• •
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- L - A	166 (•		AT	
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	20			5 6	120

	DIST	1/3 OCTAVE DISTANCE =	250 250	4												` ^ '	TEST	24-00	4-023	
NOISE SO F-1050 ENG. J GROUND	SOURCE J75-P	CE/SUBJECT AIRCRAFT -P-19M UNUP	=-		O DE	PERATION: HILITARY SINGLE EN	ENSIN	POWER,	100%	g g	AET TET DOEL	TENP SAR PR REL HU	PRESS = HUMID = 3	29.92 29.92 70 1.0 08	L H X	9	RUN 03 AIRCRAFT OPERATION PROFILE VE 31 MAR 76 PAGE C3	DAFT TION LE VE R 76	CODE	01004 01004
BAND CENTE	CENTER	٥	6.	20	30	3	G.	9	A C	ANGLE	CDEG	EES)	1.	120	1 30	1,00	4.00	46	2470	8 1 4
		•		;	;	:				3	;				2		•			2
5	91	95	82	85	92	85	82	98	68	2	90	93	96	66	105			66		29
• •	2	6 6	92	200	200	000	20 0	0.0	16	92	93	16	100	102	109			100		80 0
1.0	•	0 0	0 8	6 6	0 0	0 6	0 0	16	2 0	200	4 6	100	101	100	117	118	1 5	100	2 6	7.0
125		91	91	93	95	92	36	96	26	96	96	102	107	108	114			96		26
166	9	16	*6	96	16	96	16	96	66	100	101	105	109	112	115			96		92
200	0	93	93	16	95	+6	93	96	66	66	100	104	108	111	115			92		72
256	9	88	91	35	93	93	66	46	96	96	66	102	106	108	115			91		7.1
315	2	68	16	16	35	96	96	96	98	101	101	105	108	110	114			95		72
204	9	91	46	96	96	16	96	66	101	102	103	107	110	112	115			91		7.1
500	0	93	95	96	95	96	16	100	101	101	102	106	110	111	112			88		68
636	9	96	35	96	96	96	96	96	96	98	101	104	101	110	112			88		68
300	9	91	46	96	95	95	95	98	26	16	100	104	108	109	110			84		49
1030	9	96	88	91	93	16	95	95	91	35	96	66	103	101	107			83		63
1250	0 9	82	92	88	89	91	95	90	68	95	93	96	103	105	104			80		60
1610	,	95	96	87	87	68	68	91	46	95	16	66	104	102	102			78		58
200	10	81	83	94	47	88	9	63	46	96	16	100	102	103	102			78		58
2500	0	82	48	92	88	88	89	96	86	86	101	103	104	101	97			75		55
3150	9	11	81	94	98	87	68	93	93	76	96	100	101	66	95			72		52
4000	0	20	90	82	95	88	91	92	93	95	46	100	103	66	96			72		52
5000	0	15	28	20	83	92	98	87	88	91	16	16	101	96	46			69		64
6300	0	11	92	18	81	82	48	98	88	90	93	96	100	96	93			29		47
800	9	20	17	92	19	81	83	85	87	69	91	16	26	93	92			99		94
10000	0	99	20	73	15	92	62	80	81	94	98	68	95	68	87			62		42
OVERALL	ALL	102	104	105	105	106	106	108	109	111	112	116	119	121	125	128	119	107	46	87

		LENGETAED NOT 3C	113E L	רבאבר וא	PNOS											LOENTI	DENTIFICATION	TIONS	
	AS A F	FUNCTION OF	1 OF	ANGLE A	AND DIS		FROM S	SOURCE) TEST	T 74-0	74-004-023	
NOISE SOURCE/SUBJECT: F-1050 AIRCRAF ENG. J75-P-194 GROUND RUNUP	E SOURCE/SUBJE F-1050 AIRO ENG. J75-P-194 GROUND RUNUP	RCE/SUBJECT: D AIRCRAFT J75-P-19W D RUNUP	- F		OPER	RATION: MILITARY SINGLE EN	ENGINE	R, 100%	Z RPH	2000	METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	PRESS HUMID	= 29. = 0.08	59 F 92 IN H 70 %	9	PRO OPE	AIRCRAFT OPERATION PROFILE VE 31 MAR 76 PAGE D3	CODE	01004 01004
DISTANCE	9	10	24	30	0,	5.0	0.9	7.0	ANGLE 80	CDE 93	GREES)	110	120	130	140	150	160	>170	>180
200	111.2	113.5		116.	117.5	118.		123.1	6	126.2	128.9	131.8	131.1	_		m	1111.0	100.9	90.7
250	109.1	11103	113.0		115.2	116.5	119.5	120.9		124.0	126.7	129.5	129.0	130.9	133.6	122.2	108.9	98.8	88.4
610	104.7	100.9	163.6	109.4	110.5	1111		115.3	1 0	119.4	122.1	124.9	124.6	126.6		10	104.6	4.46	83.7
200	102.4		106.3	-	108.0	109.		113.8	٥	117.0	119.7	122.5	122.3	124.4	_	9	102.3	92.1	81.3
630	100.0	102.2	103.9		165.5		-	111.3	ч	114.4	117.1	120.0	120.0	122.1	•	N	10000	89.7	78.
900	91.6	2.66	101.5	101.9	103.0	103.8	107.3	108.6	+	1111.7	114.5	117.3	117.5	119.7		.0	91.6	87.0	76.4
1000	95.0	97.1	98.9	99.	100.3	-	104.5	105.8	:0	108.9	111.	114.5	0		m	107.9	95.1	84.4	73.7
1250	92.2	4.46	96.2	96	97.5	97.	101.4	102.7	103.5	105.8	108.6	111.5	m	114.5		104.9	92.2	81.6	70.9
1600	4 9.6 8	91.5	93.3	93.	94.6	94.	98.1	4.66	2	102.5	105.	108.5			10	101.9	89.2	78.5	64.6
2000	86.3	88.5	90.3	90	91.5	91.	34.5	6.56	8	98.9	101.8	105.4	+			98.8	86.0	15.4	64.7
2506	83.0	85.1	86.0		87.8	88.	91.1	91.9	7	6.46	98	101.6	102.6		0	95.0	82.0	71.4	60 · E
3150	79.1	81.2	85.9		83.9	84.	07.1	87.8	8	4.06	94.	97.6	98.7		~	90.6	17.6	67.3	55.8
4000	14.7	10.0	79.0	78.6	19.6	80.5	32.7	83.3	2	85.8	89.	93.2	94.3	-	•	86.0	73.0	62.2	20.5
2070	70.0	15.1	14.1		14.9	15.	6.11	78.5	2	81.0	34	88.4	89.6	+		81.2	68.5	57.1	44.
6300	0.69	67.2	69.3	69.0	60.0		72.9	73.4	74.4	75.9	79.7	83.4	;	86.5	89.1	76.2	63.0	51.5	37.6
000	1.10	03.5	1 . 60	0 ** 0	02.6	000	000	4.40	2	11.8	5	13.4	80.9		~	1501	29.0	2.74	36.4
1.010	56.8	63.0	6.1.8	6.0	510	61.7	54.5	65.1	66.1	67.5	71.4	75.2	76.8	78.7	81.4	68.8	54.6	41.8	26.6
12500	52.1	54.3	56.2	55	26.6	56.7	59.8	50.4	61.4	62.8	66.8	7007	72.4	74.5	77.2	64.7	49.8	35.1	17.2
16000	46.8	49.1	51.1	50.3	51.4	51.1	54.7	55.2	56.2	57.7	61.8	65.8	67.5	8.69	72.6	60.1	44.4	28.3	7.7
20000	4004		45.0	44	45.4	14.5	48.9	49.4	50.5	52.0	56.2	60.3	62.1	64.8	6.79	55.0	37.8	18.2	
25000	32.8		37.6		34.0	36.6	42.6	42.7	43. B	45.6	49.8	54.1	56.1	4.65	62.6	49.1	30.5	8.2	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

NOT SEE SO	AS A	FUNCTIO	AS A FUNCTION OF	ANGLE A	AND DIS	DISTANCE	FROM S	SOURCE) TEST	74-004-02	14-023	
F-1050 ENG. J7 GROUND	275-F	UBJECT: AIKCRAFT -19W			OPER	OPERATION: MILITARY POWERS SINGLE ENGINE	ENGINE	R, 100%	Z APA	2222	METEOROL TEMP BAR BAR REL DELTA N	EOROLOGY: TEMP BAR PRESS REL HUMID TA N = 6	=29. = 0.08	59 F 92 IN H 73 %	ā	AIRCRAF OPERATI PROFILE 31 MAR	AIRCRAFT OPERATION PROFILE VE 31 MAR 76 PAGE E3	CODE	01004 01004
DISTANCE (FEET)		10	20	36	;	35	3	0,2	ANGLE		(DEGREES) 90 100	110	120	130	140	150	160	>170	180
200	1111.2		115.2			118.		124.6	0		129.9	132.8	131.1	-		m	111.0	100.9	90.7
315	106.1	112.5	113.0	114.0	115.2	116.5	120.7	122.4	0 +	125.3	127.7	130.5	126.8	128.8	133.6	~ -	106.8	98.8	86.2
00+	104.7	108.0				11		117.8		120.7	123.1	125.9	124.6			0	9.401	94.46	83.7
200	102.4	105.7				109.		115.4		118.3	120.7	123.5	122.3	+			102.3	92.1	81.3
630	100.0	103.3						112.8	-	115.7	118.1	121.0	120.0	-		N	0.001	89.7	78.9
8.00	97.6	100.9	101.5					110.2	109.4	113.0	115.5	118.3	117.5	119.7		9	91.6	87.0	76.4
1000	95.0	98.3	98.6	99.	100.3	100.9	105.7	107.3	106.5	110.2	112.6	115.5	115.0	117.2		107.9	95.1	84.4	73.7
1250	92.2		96.2	96	97.5					107.1	109.6	112.5	112.3	114.5			92.2	81.6	70.9
1600	89.4			93.	94.6	6.46				103.8	106.3		109.4	111.7		101.9	89.2	78.5	6.79
2000	86.3				91.5	91.	95.8	4.16	8.96	100.2	102.8	106.4	106.4	108.8	1111.6	98.8	86.0	75.4	64.7
2500	83.0			86.	67.8					96.2	99.0	132.6	102.6	105.0		95.0	82.0	71.4	60.6
3150	79.1		85.9	82.	83.9					91.7	95.0		98.7	100.8		9006	77.6	67.0	55.8
4000	7 ** 7	7.17	78.6	78.	19.6	80.2				6.98	90.3	0.46	94.3	96.1		86.0	73.0	62.2	50.7
2000	70.0		74.1	74.	4.9		78.6	19.4	15	81.0	85.3	89.0	9.68	91.4		81.2	68.2	57.1	44.7
6300	65.6		69.3	69	6.69	70.	73.3	74.0	+	76.4	86.1	83.8	84.7			76.2	63.0	51.5	37.6
0000	61:1	63.4		9	65.7		69.0	2.69		72.1	15.9	79.6	80.9	~		72.7	29.0	47.0	32.4
+0300	4	0.03		-	2 1 2	1 13	1		. 75		71 6	75. 2	36	7 97	,	0 0 0	9 79		36
12500	52.1			2 0	2 4		200	40.0	1 1	60.00	, P.	70.7	75.4	101	77.2	64.7	0 0	35.1	17.2
16000	46.6			50.	51.4		54.7	55.2	56.2	57.7	61.8	65.8	67.5	8.69	72.6	60.1	44.4	28.3	7.7
20000	40.4				45.4	44.5	6.84	49.4	50.5	52.0	56.2	60.3	62.1	64.8	67.9	55.0	37.8	18.2	
00000																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

NOISE SOU	1 2	TECH	30		200	TANCE	300103 7003	30010								OMEGA	GA 8.2	A 8.2	
NOISE SOU		LONG TON	5	MUCLE	AND OF	DISTANCE.	202	מחלהב								SIG T	0.4	20-40	i
ENG.	F-1350 AIRCAAFT	JBJECT I			OPER	RATION: MILITARY POWER, SINGLE ENGINE	ENGINE	R, 100%	1% RPH		METEOROLO TEMP BAR F	EOROLOGY : TEMP BAR PRESS	= 59	L H	9	AIR	FACE	CODE	077 01004
	GROUND RUNUP	4									REL DELTA N			*) 31) PAG	MAR 76		
DISTANCE (FEET)		10	2.0	30	9	50	0.9	7.0	ANGLE 80	E (DEG	(DEGREES) 90 100	911	120	130	140	150	160	>170	×180
200	93.0	101.4	103.4	103.7	104.7	105.6	107.6	108.5	109.5	111.6		118.1	118.7	120.1	122.6	109.9	1.96	86.7	7.97
250	96.9		-	101	102.6	103.4	105.5			109.5		116.	116.6		120.6	107.9	1.46	84.7	74.7
315	94.0		99.2	99.5	100.5	101.3	103.3	104.1	105.2	107.2	110.4	113.	114.5	116.0	118.5	105.8	92.6	82.6	72.6
) d	900.5		0.76	90	0.00	95. T	10101			102.7			110.1		114.3	101.5	88.4	78.4	68.4
630	89.3	90.7	92.7	92	93.9	9.46	96.5			100.3		107	107.9	109	112.1	99.2	86.1	76.1	66.1
999	96.0		999.5	99.	91.6	92.2	94.1	6.46	6.56	97.9			105.6		109.9	6.96	83.9	73.9	63.9
1000	83.7	96.2	98.2	88.	89.2		91.7	92.4	93.5	4.96	98.7				107.6	4.46	81.5	71.5	61.5
1250	61.3		85.8	85.	86.7		89.5	89.9	6.06	95.8	96.2	99.7			105.1	91.8	79.0	69.0	59.0
1630	78.9		83.4	83.3	84.2	84.7	86.6	87.2	88.2	90.1	93.5		98.4	100.0	102.5	89.1	16.4	4.99	96.4
2005	76.3		80.8	80.	81.6		83.9	84.5	85.5	87.3	90.8	4.0	95.8		6.66	86.3	73.6	63.6	53.6
25.30	73.5	15.9	78.0	17.	78.7		6.08	81.4	82.3	84.2	87.8	91.	95.8		96.8	83.1	20.5	60.5	50.5
3150	70.3		74.8	74.	75.5		77.6	77.9	78.9	80.9	84.5	88.	89.6		93.3	19.5	67.1	57.1	47.1
9004	2.99	63.2	71.3		71.9		74.0	74.2	75.1	77.1	80.8	84.5	86.0		89.5	15.6	63.3	53.3	43.3
5000	62.7	65.1	67.3	67.1	6.29		69.8	69.6	70.9	72.9	16.6	80.	81.9		85.1	71.3	59.1	49.1	39.1
6316	58.4	63.8	63.0		63.6		4.59	65.4	999	68.5	72.2	76.	77.6		80.7	9 .99	24.6	4.0	34.6
80 10	24.1	57.1	59.3		29.1		61.7	61.7	95.4	2.49	68.4	75	13.8		10.1	65.3	51.0	41.0	31.0
10000	20.6	53.0	55.1	54.	55.5		57.6	57.6	58.4	9.09	64.3	68.0	9.69	71.2	73.2	59.4	47.1	37.1	27.1
12530	46.2	43.5		50.1	50.9	50.9	53.5	53.3	54.0	56.2	59.8	63.5	65.1	8.99	69.9	55.3	45.9	32.9	22.9
16000	41.2	43.5		45.	45.8		48.2	48.5	49.3	51.3	6.45	58.6	60.2	62.0	64.3	51.0	38.4	28.4	18.4
20005	35.8	33.0	40.0	39.	40.5		45.8	43.2	0 • 4 +	45.8	49.5	53.1	24.7	55.8	59.3	40.4	33.6	23.6	13.6
250.00	300			•									-						•

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

OPERATION: HILIARY POWER, 100X RPH DELTA N. FEMP		AS A F	A FUNCTION	P	ANGLE	AND DIS	DISTANCE	FROM S	SOURCE) OMEGA	OMEGA 8.2 Test 74-004-023	14-023	
99.0 102.6 1u3.4 1u3.7 1u3.7 1u3.7 1u3.7 1u3.6 1u3.8 1u3.0 1u3.5 112.9 115.8 1u3.2 1u3.7 1	NOISE SOU F-105 ENG. GROUN	ACE/SI	JBJECT	_=		1 02	AT IONS	ENGINE	1	•		TEPEDRO BAF BAF REL	PRES	=29. =0.08	59 F 92 IN 70 %	<u>9</u>	AIR OPE 31	CRAFT RATION FILE VE HAR 76	CODE CODE ERSION	01004 01004
99.0 102.6 103.4 103.7 104.7 105.6 108.8 113.0 119.5 115.9 115.8 119.2 118.7 120.1 122.6 109.9 96.7 86.7 99.0 100.5 101.3 101.6 102.4 105.7 107.9 107.4 110.8 113.6 117.0 116.6 110.1 120.6 107.9 94.7 84.7 95.8 103.5 101.5 101.5 105.2 105.2 101.3 113.9 116.0 118.5 105.9 94.7 84.7 95.7 95.5 101.5 101.3 104.5 105.2 105.2 105.2 112.5 112.0 118.9 116.9 92.8 80.5 92.8 92.7 95.2 95.1 96.1 96.0 101.2 102.7 106.9 110.3 113.9 116.0 118.5 105.9 96.8 80.5 95.8 96.8 92.8 92.8 93.2 105.2 105.2 105.3 110.1 111.8 114.3 101.5 105.8 80.5 80.5 95.8 96.5 95.9 99.2 105.2 105.7 105.6 107.3 103.5 102.9 96.9 96.3 101.0 102.2 105.7 105.6 107.3 103.9 96.9 96.9 96.3 101.0 102.5 102.1 107.3 103.5 102.9 96.9 96.3 101.0 102.5 102.1 107.3 103.5 102.1 107.8 96.9 96.9 96.3 107.2 102.7 105.6 107.3 102.9 96.9 96.7 87.8 96.2 95.2 95.9 94.1 97.2 100.7 100.9 102.5 102.1 97.0 99.0 96.1 97.2 102.5 102.1 107.3 102.9 96.9 97.0 99.0 94.1 97.2 100.7 100.9 102.5 102.1 97.0 99.0 97.0 99.0 99.1 99.2 97.0 99.1 99.2 97.1 97.2 100.7 100.9 102.5 102.1 97.8 96.9 96.1 97.0 99.0 97.0 99.1 99.2 97.0 99.0 99.1 99.2 97.0 99.1 99.2 97.0 99.1 99.2 97.0 99.1 99.2 97.0 99.1 99.2 97.0 99.1 99.2 97.0 99.1 99.2 97.0 99.2 97.0 99.2 97.0 99.2 97.0 99.2 97.2 99.2 97.0 97.0 97.0 97.0 97.0 97.0 97.0 97.0	DISTANGE (FEET)	0	10	26	30	9	5.0	0.9	7.6	ANGL		SREES)	110	120	133	146	150	:	1	180
96.9 1007.5 101.3 101.6 102.6 103.4 106.7 107.4 110.8 113.6 117.0 116.6 118.1 120.6 107.9 94.7 84.7 94.2 99.4 100.5 101.3 101.6 102.5 105.7 107.4 110.8 113.6 117.0 116.6 118.1 120.6 107.9 92.6 82.6 92.6 93.9 99.1 102.3 102.5 105.5 105.5 105.8 105.8 92.6 82.6 94.2 99.1 102.3 102.5 105.7 104.0 106.3 10.9 110.3 110.1 111.8 114.3 10.5 6 80.4 78.4 94.2 95.1 96.9 99.3 94.6 97.7 98.3 101.6 104.6 108.0 107.9 109.5 112.1 99.2 88.4 78.4 96.5 91.6 92.6 92.7 92.2 95.3 94.6 97.7 96.9 98.3 101.6 104.6 108.0 107.3 109.9 109.5 112.1 99.2 88.4 78.4 96.5 91.6 92.6 92.7 92.2 95.3 94.6 93.5 99.2 102.2 105.7 105.6 107.3 109.9 96.9 93.9 97.3 105.0 107.3 109.9 96.9 93.9 97.3 96.9 93.9 94.0 93.5 96.7 99.7 103.3 105.0 107.3 109.9 96.9 93.9 94.1 97.2 100.7 100.9 102.5 105.1 91.8 77.5 92.8 92.8 92.8 92.8 92.8 92.8 92.8 92.8	200	9 66	102.6	3	103.7	4	105.6	œ	113.0	ıc	112.9		119	118.7		122.6	109.9	46.7	86.7	76.1
94.4 99.4 99.5 100.5 101.5 104.5 105.7 105.2 108.6 111.4 114.8 114.5 116.0 118.5 105.5 105.6 92.6 92.7 95.2 97.3 99.1 102.3 103.5 102.5 105.2 106.5 110.5 112.6 112.5 115.5 115.7 101.5 98.4 92.7 95.1 95.1 95.1 99.1 102.3 103.5 102.5 110.5 110.5 110.1 111.8 114.5 1115.7 101.5 88.4 96.5 95.1 95.1 95.1 95.1 95.1 95.1 95.1 95	250	96.9		101.3	101.6	102.6		136.7	107.9		110.8		117.	116.6			107.9	2.46	84.7	74.
92.7 96.2 97.1 97.3 90.3 99.1 110.3 1103.5 1102.9 1106.3 119.2 112.6 112.3 113.9 116.4 1103.7 90.5 90.5 90.5 90.5 90.5 90.5 90.5 90.5	315	9 ** 6		99.2	66	100.5		104.5	105.7	~	108.6		114.	114.5		10	105.8	95.6	82.6	72.
90.5 94.1 94.9 95.1 96.1 96.6 100.0 101.2 100.7 106.0 110.3 1110.1 1111.8 114.3 101.5 88.4 78.4 88.3 91.9 92.7 93.9 94.6 97.7 98.9 98.3 101.6 106.9 110.3 110.1 111.8 114.3 101.5 88.4 76.1 88.3 91.9 92.2 93.3 101.6 101.6 101.7 105.6 107.3 109.9 96.9 83.9 97.3 73.9 85.1 87.1 95.2 95.3 96.5 95.9 94.0 93.5 99.2 102.2 105.7 105.6 107.3 109.9 96.9 83.9 73.9 83.9 73.9 85.8 85.8 86.7 87.8 79.8 85.8 86.7 87.8 79.8 85.8 86.7 87.8 79.8 94.0 97.2 102.7 100.7 100.9 102.5 102.5 105.1 76.4 81.6 82.0 84.9 81.8 89.8 92.5 92.8 91.1 90.4 91.8 79.0 69.0 80.0 73.5 77.0 78.8 77.8 74.9 72.4 82.0 85.8 86.0 85.8 86.0 85.8 86.7 79.1 82.1 82.9 82.2 85.5 95.8 97.4 99.9 86.3 73.6 65.4 73.5 73.8 74.8 74.8 74.9 72.4 74.9 72.4 74.9 72.4 74.9 72.4 92.8 92.8 93.8 93.8 93.8 93.8 93.8 93.8 93.8 93	400	92.7		97.1	97.	98.3		102.3	103.5	•	106.3		112.	112.3	113.		103.7	90.5	80.5	70.
86.3 91.9 92.7 92.9 93.9 94.6 97.7 98.9 98.3 101.6 104.6 108.0 107.9 109.5 112.1 99.2 86.1 76.1 86.1 86.1 86.0 91.5 91.6 92.2 95.3 96.5 95.9 99.2 102.2 105.7 105.6 107.3 109.9 96.9 83.9 73.9 86.1 86.1 86.1 86.1 86.1 87.2 105.7 105.6 107.3 109.9 96.9 83.9 73.9 86.1 81.6 81.8 81.8 81.2 81.2 105.7 101.9 107.5 105.9 107.5 105.9 107.5 96.9 83.9 73.9 81.3 81.2 81.2 81.2 81.2 81.2 81.2 81.2 81.2	200	90.5	94.1	6.46	95.	96.1		100.0	101.2	~	104.0		110.	110.1	111.	-	101.5	88.4	78.4	68.
86.C 89.b 90.5 90.6 91.6 92.2 95.3 96.9 99.0 102.2 102.2 105.7 105.6 107.3 109.9 96.9 83.9 73.9 83.7 78.3 86.2 86.8 85.8 85.8 85.8 86.7 87.3 90.4 91.4 90.9 94.1 97.2 100.7 100.9 102.5 105.1 91.8 79.0 69.0 78.9 81.3 78.4 83.4 83.8 85.8 86.7 87.3 90.4 91.4 90.9 94.1 97.2 100.7 100.9 102.5 105.1 91.8 79.0 69.0 78.9 82.4 83.4 83.4 83.2 84.2 84.7 87.8 88.2 91.4 94.5 98.1 98.4 100.0 102.5 89.1 76.4 66.4 76.3 77.9 80.8 80.8 80.2 91.4 94.5 98.1 98.4 100.0 102.5 89.1 76.4 66.4 76.3 77.9 80.8 80.7 77.1 79.1 82.1 86.0 85.1 86.9 85.5 88.6 91.8 92.5 95.8 97.4 99.9 86.3 77.6 65.8 77.8 77.8 77.8 77.8 77.8 77.8 77.8 7	630	88.3	91.9	92.7	95.	93.9		7.16	6.86	m	101.6		108.	107.9	109.	112.1	2.66	86.1	76.1	99
83.7 87.3 88.2 64.3 89.2 89.8 92.9 94.0 93.5 96.7 103.2 103.3 105.0 107.6 94.4 81.5 71.5 81.5 81.3 65.8 85.8 86.7 87.3 90.4 91.4 90.9 94.1 97.2 100.7 100.9 102.5 105.1 91.8 79.0 69.0 78.9 82.4 83.4 83.3 84.2 64.7 87.8 88.8 88.2 91.4 94.5 98.1 98.4 100.0 102.5 89.1 76.4 66.4 73.5 73.5 81.8 80.7 71.2 81.8 81.8 95.5 95.8 97.4 99.8 81.1 76.4 66.5 60.5 73.5 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77	900		89.0	90.5		91.6		95.3	96.5	6 • 96	88.5	102.2	105.	105.6	107.	109.9	6.96	83.9	73.9	63.
81.3 64.9 85.8 85.8 86.7 87.3 90.4 91.4 90.9 94.1 97.2 100.7 100.9 102.5 105.1 91.8 79.0 69.0 78.9 82.4 83.4 83.3 84.2 64.7 87.8 88.8 88.2 91.4 94.5 98.1 98.4 100.0 102.5 89.1 76.4 66.4 76.3 76.3 76.3 89.2 64.8 95.5 95.8 97.4 99.8 83.1 76.4 66.8 76.3 76.3 77.0 81.6 80.7 72.1 82.1 82.0 82.3 85.5 89.2 89.6 94.4 96.8 83.1 70.5 60.5 70.3 73.8 74.8 74.7 75.5 72.4 74.9 72.4 72.8 72.9 82.3 89.2 85.5 89.2 89.6 94.4 96.8 83.1 70.5 60.5 70.5 70.1 71.3 71.1 71.9 72.4 74.9 75.4 75.4 75.4 75.4 75.4 75.4 75.4 75.4	1000		87.3	88.2		89.2		95.9	0.46	93.5		7.66		103.3	105.0	107.	4.46	81.5	71.5	61.5
78.9 82.4 83.4 85.3 84.2 64.7 87.8 88.8 88.2 91.4 94.5 98.1 198.4 100.0 102.5 89.1 76.4 66.4 66.4 76.3 75.3 79.9 80.3 75.8 80.8 80.2 18.0 85.5 89.6 91.8 95.5 95.8 97.4 99.9 86.3 75.6 65.6 75.5 77.0 80.7 77.4 82.1 82.1 82.3 85.5 85.5 85.5 85.5 85.6 91.8 92.5 92.8 97.4 96.8 83.1 70.5 65.6 53.5 77.5 77.0 77.4 77.5 77.4 77.5 78.9 78.9 82.2 85.5 85.2 85.6 91.1 93.3 79.5 67.1 57.1 70.5 70.9 72.4 74.9 75.4 76.9 75.4 76.9 75.4 76.9 76.4 76.9 76.4 76.0 87.2 85.6 85.1 86.0 87.4 89.5 75.6 63.3 53.3 62.7 85.4 70.5 70.9 70.4 77.2 81.6 85.3 86.0 87.4 89.5 75.6 63.3 53.3 55.4 61.0 87.4 89.5 75.6 63.3 53.3 55.4 61.0 85.9 66.1 66.2 69.0 77.2 81.0 81.9 83.2 85.1 71.3 59.1 49.1 59.8 75.6 57.3 67.1 67.9 68.4 70.6 70.9 70.8 73.7 77.2 81.0 81.9 83.2 85.1 71.3 59.1 49.1 59.8 59.0 59.7 50.8 70.8 70.8 70.8 70.8 70.8 70.8 70.8 7	1250	81.3	6.49	85.8	85.	86.7		4.06	91.4	90.9	94.1		-	100.9	102.5		91.8	19.0	69.0	59.0
76.3 79.9 60.8 60.7 81.6 62.0 85.1 86.0 85.5 88.6 91.8 95.5 95.8 97.4 99.9 86.3 73.6 63.6 73.6 73.5 77.0 78.0 77.8 78.7 79.1 82.1 82.9 82.3 85.5 88.8 92.5 92.8 94.4 96.8 83.1 70.5 60.5 70.3 73.8 74.8 74.7 75.5 75.9 78.8 79.5 75.4 85.2 85.5 89.2 89.6 91.1 93.3 79.5 67.1 50.5 60.5 70.1 71.9 72.4 74.9 75.4 75.1 78.2 85.0 85.0 85.0 85.0 85.1 71.3 79.5 67.1 57.1 65.9 66.1 66.2 69.0 72.6 76.4 77.6 78.8 80.7 66.8 54.6 44.6 54.1 65.9 66.1 66.2 69.0 72.6 76.4 77.6 78.8 80.7 66.8 54.6 44.6 54.1 57.3 59.1 59.3 59.0 59.7 60.1 61.9 62.0 62.0 68.6 72.4 77.6 78.8 80.7 66.8 54.6 44.6 54.1 57.3 59.3 59.0 59.7 60.1 61.9 62.0 62.0 64.3 68.0 64.3 77.1 63.3 51.0 41.0 41.0 43.5 45.6 45.0 65.3 55.7 57.6 58.8 45.6 44.6 57.1 63.3 59.3 40.9 58.9 55.2 77.1 63.3 51.0 41.0 41.2 43.5 45.6 45.0 65.1 54.8 75.8 75.8 55.1 54.0 55.8 45.0 40.2 39.8 42.8 43.5 53.1 54.0 55.3 46.0 55.3 46.0 55.3 46.0 55.3 55.0 55.1 54.0 55.8 55.1 54.0 55.1 54.0 55.1 54.0 55.1 54.0 55.1 54.0 5	1600	78.9	82.4	83.4	83.	84.2		87.8	88.8	88.2	91.4			98.4	100.0		89.1	16.4	4.99	56.
73.5 77.0 78.0 77.4 78.7 79.1 82.1 82.3 82.3 85.5 88.8 92.5 92.8 94.4 96.8 83.1 70.5 60.5 70.3 73.8 73.8 74.8 74.7 75.5 75.9 78.8 79.5 78.9 82.2 85.5 89.6 91.1 93.3 79.5 67.1 57.1 56.2 56.7 70.1 71.3 71.1 71.9 72.4 74.9 72.4 76.1 78.7 77.2 81.6 85.3 86.0 87.4 89.5 75.6 67.3 53.3 53.3 59.1 66.2 69.0 72.5 77.2 81.6 85.3 86.0 87.2 85.7 77.2 81.0 87.9 87.5 77.2 87.1 67.9 89.5 77.1 63.3 59.1 49.1 59.3 59.0 59.7 60.1 61.9 62.0 69.0 72.6 76.4 77.6 76.8 80.7 76.8 80.7 66.8 54.6 44.6 54.7 57.6 57.8 75.2 77.1 63.3 51.0 41.0 59.3 59.0 59.7 60.1 61.9 62.0 62.0 64.3 68.0 69.6 72.4 77.6 78.8 80.7 66.8 54.6 44.6 69.0 72.4 72.4 73.8 75.2 77.1 63.3 51.0 41.0 45.2 43.5 51.0 41.0 59.8 45.6 48.2 48.5 54.0 56.2 59.8 63.5 64.3 59.8 69.3 51.3 54.9 56.6 60.2 62.0 64.3 51.0 38.4 28.4 27.6 51.8 75.1 63.3 51.0 51.0 51.0 51.0 51.0 51.0 51.0 51.0	2000	76.3	19.9	80.8		81.6		85.1	86.0	85.5	88.6			95.8	4.16		86.3	73.6	63.6	53.
70.3 73.8 74.8 74.7 75.5 75.9 78.8 79.5 78.9 82.2 85.5 89.6 91.1 93.3 79.5 67.1 57.1 57.1 57.2 17.3 71.1 71.9 72.4 72.4 75.1 78.2 81.6 85.3 86.0 87.4 89.5 75.6 63.3 53.3 53.3 56.2 7 70.1 71.3 71.1 71.9 72.4 74.9 75.4 75.1 78.2 81.6 85.3 86.0 87.9 87.5 65.3 53.3 53.3 53.3 53.3 52.4 67.3 67.1 67.9 68.4 76.6 70.9 77.2 81.0 81.9 83.2 86.7 66.1 67.9 66.1 66.2 69.0 77.2 77.2 81.0 81.9 81.7 66.8 59.6 44.6 59.1 49.1 59.1 59.1 59.1 59.1 59.1 59.1 59.1 5	2500	73.5	77.0	78.0		78.7		82.1	82.9	82.3	85.5			95.8	4.46		83.1	70.5	60.5	50.
b6.7 70.1 71.3 71.1 71.9 72.4 74.9 75.4 75.1 78.2 81.6 85.3 86.0 87.4 89.5 75.6 63.3 53.3 53.3 62.7 65.3 67.3 67.1 67.9 68.4 70.6 70.9 70.8 77.2 81.0 81.9 83.2 85.1 71.3 59.1 49.1 59.4 67.3 67.1 67.9 66.1 67.9 66.1 67.9 66.2 69.0 72.6 76.4 77.6 78.8 80.7 66.8 54.6 44.6 59.1 71.3 59.1 49.1 59.1 59.1 59.7 65.1 61.0 62.0 69.0 72.6 72.4 77.6 78.8 80.7 66.8 54.6 44.6 54.7 57.1 57.2 81.0 81.0 81.0 81.0 81.1 61.9 62.0 62.1 66.2 69.0 72.4 77.6 78.8 80.7 77.1 63.3 51.0 41.0 59.7 51.0 51.0 52.4 67.1 51.9 51.0 62.0 62.0 69.6 72.4 77.6 77.1 63.3 51.0 41.0 41.0 78.6 51.1 51.9 51.2 77.1 51.3 59.4 47.1 37.1 41.0 78.8 45.6 61.2 59.8 47.1 51.3 54.7 56.8 59.3 46.4 33.6 23.6 51.0 51.1 51.2 77.1 53.3 46.4 33.6 23.6 29.8 31.9 33.8 33.2 34.0 33.5 36.8 37.3 38.2 39.8 43.5 47.1 48.7 51.1 53.9 41.6 28.7 18.7	3150	70.3		74.8	74.	75.5		78.8	79.5	78.9	82.2			89.6	91.1		19.5	67.1	57.1	47.
62.7 65.8 67.3 67.1 67.9 68.4 70.6 70.9 70.8 73.7 77.2 61.0 61.9 63.2 85.1 71.3 59.1 49.1 58.4 61.3 63.0 67.3 67.1 67.9 68.4 70.6 70.8 73.7 77.2 61.0 61.9 63.2 85.1 71.3 59.1 49.1 59.8 63.6 63.6 64.1 65.9 66.1 66.2 69.0 72.6 76.4 77.6 78.8 80.7 66.8 54.6 44.6 54.7 57.8 59.3 59.0 44.0 67.0 68.0 72.4 77.8 75.2 77.1 63.3 51.0 41.0 50.6 53.0 55.1 54.8 55.5 55.7 57.6 57.6 58.4 60.6 64.3 68.0 69.6 77.2 77.1 63.3 51.0 41.0 46.2 43.5 43.6 43.6 43.5 65.1 66.8 68.9 55.3 42.9 37.1 49.1 37.1 49.2 43.5 49.0 33.0 53.1 64.0 45.8 49.5 53.1 54.7 56.8 59.3 46.4 33.6 23.6 23.6 29.8 31.9 33.8 33.2 34.0 33.5 36.8 37.3 38.2 39.8 43.5 47.1 48.7 51.1 53.9 41.6 28.7 18.7	2004	1.99		71.3	71.	71.9		74.9	75.4	75.1	78.2			86.0			15.6	63.3	53.3	43.
58.4 61.3 63.0 62.8 63.6 64.1 65.9 66.1 66.2 69.0 72.6 76.4 77.6 78.8 80.7 66.8 54.6 44.6 54.7 57.3 59.3 59.0 59.7 60.1 61.9 62.0 62.4 65.0 68.6 72.4 73.8 75.2 77.1 63.3 51.0 41.0 50.6 53.0 55.1 54.8 55.5 55.7 57.6 57.6 58.4 60.6 64.3 68.0 69.6 71.2 73.2 59.4 47.1 37.1 45.2 43.5 50.6 53.0 59.4 55.8 45.6 57.2 53.3 54.0 56.2 59.8 63.5 65.1 66.8 68.9 55.3 42.9 32.9 41.2 43.5 45.6 45.0 65.8 45.6 48.2 48.5 49.3 51.3 54.9 58.6 60.2 62.0 64.3 51.0 38.4 28.4 28.4 35.8 33.8 33.2 34.0 33.5 36.8 37.3 38.2 39.8 43.5 47.1 48.7 56.8 59.3 46.4 33.6 28.7 18.7	2000	62.7	65.8	67.3		61.9		70.6	50.0	70.8	73.7				83.	85.1	71.3	59.1	49.1	39.
54.7 57.3 59.3 59.0 59.7 60.1 61.9 62.0 62.4 65.0 68.6 72.4 73.8 75.2 77.1 63.3 51.0 41.0 50.6 53.0 55.1 54.8 55.5 55.7 57.6 58.4 60.6 64.3 68.0 69.6 71.2 73.2 59.4 47.1 37.1 45.2 43.5 50.6 54.1 50.9 55.3 57.2 53.3 54.0 56.2 59.8 63.5 65.1 66.8 68.9 55.3 42.9 32.9 41.2 43.5 45.6 45.0 65.8 45.6 48.2 48.5 49.3 51.3 54.9 58.6 60.2 62.0 64.3 51.0 38.4 28.4 28.4 35.8 38.0 40.0 39.4 40.2 39.8 42.8 43.2 44.0 45.8 49.5 53.1 54.7 56.8 59.3 46.4 33.6 23.6 23.6 29.8 31.9 33.8 33.2 34.0 33.5 36.8 37.3 38.2 39.8 43.5 47.1 48.7 51.1 53.9 41.6 28.7 18.7	6300	58.4	61.3	63.0		63.6		62.9	66.1	999	69.0				78.	80.7	8.99	24.6	44.6	34.
50.6 53.0 55.1 54.8 55.5 55.7 57.6 57.6 58.4 60.6 64.3 68.0 69.6 71.2 73.2 59.4 47.1 37.1 45.2 43.5 51.6 51.6 51.6 61.8 68.9 55.3 42.9 32.9 41.2 43.5 45.6 45.6 45.8 45.6 48.2 48.5 49.3 51.3 54.9 58.6 60.2 62.0 64.3 51.0 38.4 28.4 28.4 35.8 43.5 45.6 45.6 40.2 39.8 42.8 49.3 51.3 54.9 58.6 60.2 62.0 64.3 51.0 38.4 28.4 28.4 35.8 38.4 40.2 39.8 42.8 43.2 44.0 45.8 49.5 53.1 54.7 56.8 59.3 46.4 33.6 23.6 23.6 29.8 31.9 33.8 33.2 34.0 33.5 36.8 37.3 38.2 39.8 43.5 47.1 48.7 51.1 53.9 41.6 28.7 18.7	8830	24.7	57.3	6		2.69		61.9	62.0	62.4	65.0				75.	77.1	63.3	51.0	41.0	31.
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41.2 43.5 45.6 45.0 45.8 45.6 48.2 48.5 49.3 51.3 54.9 58.6 60.2 62.0 64.3 51.0 38.4 28.4 35.8 35.8 38.4 28.4 35.8 40.2 39.8 42.8 43.2 44.0 45.8 49.5 53.1 54.7 56.8 59.3 46.4 33.6 23.6 23.6 29.8 31.9 33.8 33.2 34.0 33.5 36.8 37.3 38.2 39.8 43.5 47.1 48.7 51.1 53.9 41.6 28.7 18.7	12500	46.2		50.6	54.	50.9		53.2	53.3	54.0	56.2	59.8	63.5	65.1	99	68.9	55.3	42.9	32.9	22.
35.8 38.0 40.0 39.4 40.2 39.8 42.8 43.2 44.0 45.8 49.5 53.1 54.7 56.8 59.3 46.4 33.6 23.6 23.6 29.8 31.9 33.8 33.2 34.0 33.5 36.8 37.3 38.2 39.8 43.5 47.1 48.7 51.1 53.9 41.6 28.7 18.7	16033	41.2		45.6	45.	45.8		48.2	48.5	49.3	51.3	54.9		60.2	62.	64.3	51.0	38.4	28.4	18.
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. SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

NOTICE SOURCE/SUBJECT COPERATION FIGURAL COPERATION COPERATION FIGURAL COPERATION COPERATION	TABLE: NOR 1/3	NORMALIZED 1/3 OCTAVE DISTANCE =	SOUND BAND 250	D PRE FEET	SSURE	ä	VEL (08	2									DENTIF OMEGA TEST 7	120	ION:	
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	OVERALL	110		113		-		116	117	-	120	124	127	~	133	136	121	115	105	

. SPL DATA MERE EXTRAPOLATED FOR THIS ANGLE.

			10 1104 10110 1 1	ANGLE !	AND DE	DISTANCE	FROM	SOURCE) TEST	1 74-00	74-004-023	
NOISE SOURCE/SUBJECTS F-1050 ALKCRAF ENG. J75-P-194 GROUND RUNUP	E SOURCE/SUBJECT F-1050 AIRCRA ENG. J75-P-194 GROUND RUNUP	SUBJECT : Alkcraft 2-194			OPER	OPERATIONS AFTERBL SINGLE EST. FF	RATION: AFFERBURNER POWER, F-105 SINGLE ENGINE, 130% RPM EST. FROM F-105 MILITARY POWER +8.008	OUNER, 1302 105 HIL	F-105	2222	METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	· · ·	59 S =29.92 D = 70	L Z X	9	PRO PE	TIO TIO	CODE	01003
DISTANCE	9	97	62	30	9	5.0	9.9	20	ANGL	1 101	(DEGREES)	110	120	130	3.4.6	150	160	>170	×186
200	119.3	121.5	123.2	124.2				131.1	131.8	134.2			139.2		143.7	132.3	119.0	109.0	98.6
315	115.6			119.8			125.3	126.6	127.4	129.7				136.8	139.5	128.1	114.8	104.8	94.6
200	110.5	112.7		115.0	110.0	117.3		121.9	122.0	125.0	127.7	130.5			135.1	123.6	110.3	100.3	90.0
9	105.7	107.8	119.6					116.7	117. +	119.8			125.	127.7	130.4	118.6	105.6	99.6	84.
1000	103.1	105.3	107.0	107.4	108.4	109.0	112.5	113.9	114.0	116.9	119.7			125.2	-	115.9	103.2	93.0	82.
1250	100.4			104.6	105.7	106.3		110.8	11100	113.9					-	113.0	100.4	90.1	79.4
1500	97.6		-		102.8	103.	100.2	107.5	108.3	110.0						109.9	97.5	87.1	76.
23.36	94.5	90.7	98.7	98.0	99.7			104.0	104.9	107.0	109.9	113.5	110.8	115.8	115.9	106.9	94.5	79.9	59.3
3150	87.3	89.4	91.1		92.1	92.0	95.2	96.0	97.0	98.6						98.9	86.1	75.5	9
4000	85.9	05.1	8000	800	87.8			91.5	32.5	94.0				104.2	-	4.46	81.4	6.07	60.0
2000	78.3	80.4		82.2	83.1			86.7	~	2.69			97.	99.66	_	89.5	16.6	0.99	54.
6300	73.4	15.5	77.6	77.4	78.2		81.1	61.7		84.1			92.9	2.46	-	84.6	71.6	60.9	64
999	9.60	71.6		73.1	74.1			77.7	٥	80.1				91.0	0	81.1	67.9	299	÷
1000	4.60	6.7.5	09.3	68.	6.69			73.5	74.4	75.8	7.67	83.5	85.0		89.7	17.3	63.8	52.3	38.
12500	69.0		64.9	.49	65.2			69.9	6.69	71.3	75.2	79.0	80.7	82.	85.5	73.2	59.3	47.3	32.
16000	95.9				63.1	6.65	63.4	0.49		66.3	70.3	74.2	15.9	78.2	81.0	68.8	54.4	41.4	25.0
20000	50.3		54.5	53.	54.4			28.4	59.4	8.09	6.44	68.9	7007	73.	76.4	64.0	6.84	34.8	14.

> SPL DATA MERE EXTRAPOLATED FOR THIS ANGLE.

(TABLE!	TONE-	TONE-CORRECTED, PERCEI AS A FUNCTION OF ANGLE	ED, PE	1 >	VED NOISE AND DIST		LEVEL (PNDB)	DB) SOURCE) IDENTI) OMEGA) TEST	DENTIFICATIONS OMEGA 8.2 TEST 74-004-02	IFICATION: A 8.2 74-004-023	
(NOISE SOURCE SOURCE FIRST OF SENSE JA	URGE/S 50 J75-F NO RUN	SOURCE/SUBJECT: 1050 AIRCRAFT G. J75-P-19H	_+		O PE S A A A A A A A A A A A A A A A A A A	AFTERBU SINGLE EST. FR	ON: ERBURNER POW GLE ENGINE, FROM F-105 ER +8.008	JRNER POWER, F-105 ENGINE, 100% RPH ROM F-105 MILITARY 8.008	F-105 RPM ITARY	2222	METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	PRESS HUMID	= 5 = 29.9 0 = 7 3.0 DB	20 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 ×	9	AIRCRAF) OPERATO PROFILE 12 MAY	RUN 04 AIRCRAFT OPERATION PROFILE VE 12 MAY 76 PAGE E1	CODE	077 01003
(DISTANGE	0	70	20	30	3	50	9	22	ANGL	· tut	(DEGREES) 90 100	110	120	130	140	150	160	>170	×180)
502	119.3	122.6	123.2	124.2	5.5			132.6	131.8		137.9	140.8	N		143.7	m		109.0	98.9
952)	117.2		121.0	122.0	123.2				.0	133.3	2	138.5			9	~	116.9	106.9	96.8
315	115.0			119.8	T 1			N 0			133.5	136.3	20 4			- 0		104.8	94.6
375	1114.5	113.8	11001	115.0		117.3	121.7	. +	122.6		128.7	131.5	0 M			123.6		100.3	90.06
650	108.1			112.5	- 10			0			126.2	129.0		130.1	. ~	~	0	97.9	87.4)
008)	105.7			110.0	-			~			123.5	126.3	10			40	9	92.6	84.9
,			1																-
1000	103.1	166.4		+	108.4		113.7		0	118.2	120.7	123.5		125.2		n e	103.2	93.0	82.2)
15:10	400	1000	101		102.8	103.1	107.4		9 M			117.6	2 10			- 0	97.5	87.1	76.4
2000	94.5			و د	99.7	666	103.9	4 .0	104.9		110.9	114.5	114.5			106.9	94.5	83.8	73.3
(25.00	91.2		95.0	6	0.96	4.96	1000		-			110.7	•		•	~	90.5	6.62	69.3
(3150	87.3		91.1	0	92.1	95.6	4.96	97.5	0			136.8	•		_	•	86.1	75.5	6.49
0004	95.9		000	0	87.8	88.3	91.6	95.7	0		98.5	102,1	102.5		_		81.4	6.07	60.09
5330	76.3		82.4	2	93.1	83.0	86.3	87.6	87.7		93.5	97.2	97.8	9.66	102.1	10	16.6	66.0	54.8
0000	1 3.4	10.0	7.5		7.07	7.01	81.0	26.5	20.20	٠ و	900	92.0	92.9				67.0	200	79.64
	•			•	•			•		•	1		1.60			4		•	
10000	65.4	67.5	69.3	69.8	9.8	70.1	72.9	73.5	74.4	75.8	19.7	93.5	85.0	87.0	1.68	77.3	63.8	52.3	38.7
(12500	6.09		64.8	64.2	65.2	05.3	68.4	69.89	6 . 69	71.3	75.2	79.0	83.7	85.8	85.5	73.2	59.3	47.3	32.2
16030	55.9	57.9	59.4	59.1	60.1	59.9	63.4	0 • • 9	6.49	66.3	70.3	74.2	15.9	78.2	81.0	68.8	24.4	41.4	25.0)
59990	50.3	52.4	24.5		24.4	53.8	57.8	58.4	₹ .65	8.09	6 . 49	69.89	70.7	73.3	76.4	64.0	48.9	34.8	14.7
1 25000	43. B	16.0	49.0	47.1	48.1	47.1	51.6	55.5		24.7	58.9	63.0	6.49	68.0	71.2	29.0	45.6	54.5	4.4
																			- [
SPL	A WERE	DATA WERE EXTRAPOLATED FOR	OLATED		THIS AN	ANGLE.													

TABLE!		A-WEIGHTED OVERALL AS A FUNCTION OF AN	DVERALL	L SOUND	LEVEL (DBA	(DBA)	FROM S	SOURCE) IDENTI	DENTIFICATIONS OMEGA 8.2 TEST 74-004-02	IFICATIONS A 8.2 74-004-023	
NOISE S FILE FREE GRO	000KG 050 UNU	E/SUBJECT: AIRCRAF 5-P-19M RUNUP	- 17		OPER	OPERATION: AFTERBU SINGLE EST. FR POWER +	ATION: AFTERBURNER POWE SINGLE ENGINE, 1 EST. FROM F-105 POWER +8.008		R, F-105 00% RPH MILITARY		METEOROLOGY B TEMP BAR PRES REL HUMI DELTA N =		= 59 S = 29.92 0 = 70 8.0 08	L H X	9	AIRCRAFI OPERATI PROFILE 12 MAY		CODE CODE RSION	077 01003
(DISTANCE	c s	70	20	30	9	50	0.9	7.0	ANGLE 80	-6	DEGREES) 0 100	110	120	130	140	150	160 ,	>170	×180
1 230	107.0	109.4	111.4	1111.7		113.6	115.6	116.5		119.6	122.8	126.1	126.7	128.1	130.6	0	104.7	1.46	1.48
(250			109.3			111.4	10	m	1.15.4	117.5	120.6	124.0	.0	126.1			102.7	92.7	82.7
315				107.5		109.3	~			115.2	118.4	121.8				80	9.001	90.6	80.6
004	-					107.1	_			113.0	116.2	119.6				111.7	98.5	88.5	78.5
200		101.0		103.1	_	104.9			~		113.9	117.3	118.1	80		109.5	96.4	86.4	16.4
630	96.3	94.7	~	100.9		132.6	10	105.3		108.3	111.6	115.0	115.9		120.1	107.2	94.1	84.1	74.1
900	74.	96.5	96.5	98.6	•	100.5	102.1	105.9	•	105.9	109.5	112.7	113.6	~		104.9	91.9	81.9	71.9
10.01	91.7	94.2	96.2	96.3	97.2	97.8	7.99	4.001	101.5	103.4	106.7	110.2	111.3	113.0	115.6	102.4	89.5	79.5	69.5
1250			93.8	93.8	2.46	95.3	~	6.76	98.9		104.2	107.7	108.			99.6	87.0	77.0	67.0
1600		89.3	91.4	91.3	35.2	92.7	0	95.2	96.2	98.1	101.	105.1		0	110.5	97.1	84.4	74.4	4.49
0002)	84.3		88.8	88.7	89.0	90.0	91.9	95.5	93.5	95.3		102.5	103.		107.9	94.3	81.6	71.6	61.6
(2500		83.9	86.0	85.8	86.7	87.1	6	9.60	90.3	92.2	95.	99.5			104.8	91.1	78.5	68.5	58.5
(3150			82.0	82.7	83.5	63.9	9	85.9	86.9	98.9	95.	96.2	97.	_	101.3	87.5	75.1	65.1	55.1
0004	1		79.3	79.1	19.9	80.4	0	85.2	83.1	85.1	88.	95.5	.46		97.5	83.6	71.3	61.3	51.3
2000		73.	75.3	75.1	15.9	16.4		77.9	78.8	86.9	8 4.6	88.4	89.9		93.1	79.3	67.1	57.1	47.1
6330		68	71.0		71.6	72.1	+	73.4	74.2	16.5	80.	84.0	85.6		88.7	24.8	959	25.6	45.6
2000	1.79	65.1	67.3		1.10	08.1		2.69	4.5	1501	9	2.09	81.0	83.5	85.1	71.3	29.0	0.64	39.0
1 1 10 00		61.0	62.1	62.8	7	12.7	4	4.5.6	4		72.2	74.0	77.6	79.2	61.2	47.4	56.4	1	7 72
12500	54.5		58.6	58.1	58.9	58.9	61.2	61.3	62.0	64.2	67.8	71.5	73.1	74.8	76.9	63.3	50.9	6.04	30.9
16000	49.5		53.6	53.0	53.8	53.6	56.2	59.5	57.3		65.9	9.99	68.2	70.0	72.3	59.0	40.4	36.4	26.4
(20030	43.8		48.0	47.4	48.2	47.8	50.8	51.2	52.0		57.5	61.1	62.7	64.8	67.3	54.4	41.6	31.6	21.6
(25000			41.8	41.2	45.0	41.5	44.8	45.3	40.2		51.5	55.1	299	59.1	61.9	9.64	36.7	26.7	16.7
SPL	DATA WERE	EXTRAP	EXTRAPOLATED FOR		THIS ANGLE	GLE.													

NOISE SOURCE/SUBJECT: F-1050 AIRRAFIT ENG. J75-P-19M GROUND RUNUP OISTANCE 0 10 2JU 107-0 110-6 i 25U 107-0 100-7 i 315 102-8 100-1 i 63U 96-3 99-9 i 83G 94-6 97-0	2 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	30 1011-7 109-6 107-3 103-1 103-1 103-1 103-1 103-1 103-1	PE 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1		UNNEX PO ENGINE, FOR F-10 FOR	05 MILL 70 MILL 70 MILL 70 MILL 70 MILL			METEOROLOGY TEMP BAR PRE REL HUM	L067				NOY C	-		
107.0 113.6 104.9 108.5 100.7 104.5 100.7 104.0 98.5 102.1 96.3 99.9 94.0 97.0					m > 10 m =		ANGL	100	DELTAN	PRESS HUMID	=29.	59 F 70 %	9	AIR OPE PRO 12	AIRCRAFT COPERATION CO	ODE STON	01003
107.0 113.6 102.6 106.4 100.7 104.2 98.5 102.1 96.3 99.9			A .010 M -1 M		m > 10 m =	99		30	62EES)	110	124	130	140	150	160	>170	>180
102.6 106.4 100.7 104.2 98.5 102.1 96.3 99.9 94.0 97.0			.010 m -1 m		- 10 m =			120.9	123.8	127.2	126.7	128.1	130.6	•	104.7	2.46	84.7
102.6 106.4 100.7 104.2 98.5 102.1 96.3 99.9 94.0 97.0			10 00 -1 00		10 m =	•		-	121.6	125.0	124.6		128.		102.7	92.7	82.7
160.7 164.2 98.5 102.1 96.3 99.9 94.6 97.0			m + 6		M .	113.7 1	~		119.4	122.8	122.5	124.0		•	100.6	9.06	80.6
98.5 102.1 96.3 99.9 94.6 97.0					-	10	•	-	117.2	120.6	120.3	121.9	124.		38.5	89.5	78.5
96.3 99.9 94.6 97.0			•			~	~		114.9	118.3	118.1	119.8	122.3	10	96.4	86.4	76.4
94.6					~	6	100.3 1		115.6	110.0	112.9	117.5	120.1	~	94.1	84.1	74.1
91.7			0	100.5 10	m	104.5 1	0	۸.	110.2	113.7	113.6	115.3	117.9	T)	91.9	81.9	71.9
				97.8 1	1 9 9 1	102.0		1.04.7	1.17.7	111.2	111.3	113.0	115.6	102.4	89.5	79.5	69.5
89.3	93.8	93.8	2.46	•	*	*	0	12.1	105.2	108.7	G	110.5	113.	99.8	87.0	77.0	67.0
6.98						90.6	96.2		102.5	106.1	106.4	108.0	110.	97.1	84.4	74.4	64.4
84.3	•		.0			0.46	93.5		99.8	103.5	103.8	105.4	107.9	94.3	81.6	71.6	61.6
	96.0		1			6.06	90.3	10	90.8	100.5	103.8	102.4	.401	91.1	78.5	68.5	58.5
76.3	80		83.5	83.9	86.8	87.5	36.9	0.2	93.5	97.2	97.6	99.1	101.3	87.5	75.1	65.1	55.1
7.4.7	m		•			83.4	83.1	۸.	89.6	93.3	0	4.56	97.	83.6	71.3	61.3	51.3
	75.3		6			78.9	78.8	1	85.2	89.0	σ	91.2	93.	79.3	67.1	57.1	47.1
4.90	0		.0			74.1	74.2	0	90.6		9	86.8	88	74.8	62.6	52.6	45.6
8000 62.7 65.3	m		_			20.0	10.4	0	16.6	90.4	81.8	83.5	85.	71.3	29.0	0.64	39.0
13000 58.6 61.0	63.1					9.29	* · 90	68.6	72.3	76.0	77.6	79.	81.2	67.4	55.1	45.1	35.1
54.5			6			61.3	62.3	64.2	67.8	71.5	73.1	74.	76.9	63.3	50.9	40.9	30.9
49.2		53.0	53.0	53.6	56.2	56.5	57.3	59.3	65.6	66.6	68.2	70.0	72.3	59.0	46.4	36.4	26.4
			2			51.2	52.0	53.8	57.5	61.1	62.7	94.	67.3	24.4	41.6	31.6	21.6
5000 37.8 39.9			0			45.3	46.2	47.8	51.5	55.1	56.7	59.	6119	9.64	36.7	26.7	16.7

NOISE	10	250	FEET) OMEG	OMEGA 8.2 TEST 74-004-023	123
	SE SOURCE/SUB F-1050 AI ENG. J75-P-1 GROUND RUNUP	JECT : RCRAFT 9H	33333	OPERATIONS AFTERS SINGLE FST. F		61NE, 105	R, F-1 00% RP HILITA	3.5	METEOR TE BA BA RE PELTA	METEDROLOGY: TEMP BAR PRESS REL HUMID DELTA N = 8.	SS = 29.92 SO = 29.92 SO = 70 8.0 08	59 F 92 IN 70 %	ş	PROFILE HERE	ARCRATT CODE DI OPERATION CODE DI PROFILE VERSION 12 MAY 76 PAGE J1	DE 077 DE 01003
				P=PNLT				A=AL				=	F=ALT			
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. SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

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40 50 60 70 80 MEAN VALUE OF NORMALIZED 1/3 08	90 100 110 SPL IN DB
F-106 AFTERBURNER POWER 1	108 % RPM 2.45 EPR
AIRSPEED = 350 KNOTS TEMP = 59 F SLANT DISTANCE = 1000 FEET REL HUMID = 70 %	PNLT
NO. OF RECORDS = 8 105NT 8 6.6-078-101-090275	ALT = 112.3 Al = 111.7

AIRCRAFT:	AIR-TO-GROUND																			-		3	-	
IRCRAFT :		-6RC	OND	8	PAGA	TION														- 1	OMEG		9.9	
	-106		1		2	PE A	DE DE	BURNER X RPH		OWER 2.45		α	2000	ETEOR	TEOROLOGY STEND REL HU	. I	" " 01	59	L X		PROF	CODE CODE FILE EB 7	VER 1	78 01 1 A
C. Aut								. !	9 !		2 1 1	1 3			2 1 0	• 1	•		-					
DISTANCE 1 (FEET)	1 1	8	6	20	21	22	23	54	52	26 26	27	28	29	30	31	32	33	34	35	36	37	38	39	4
9	-	-			21 1	21	~	9			18	80	00		9	~	9	~	9	9	15	~	23	12
					19 1	19	10	t	80		16	9	9		+	4	*		4	4	15		20	12
					17 1	11	~	2	0		14	+	+		2	~	2	2	-	-	10		10	15
86 004		95	95 10	107 1	15 1	12	111	1101	1141	112 1	275	112 1	112	111	110	110	110	110	109	109	107	109	113	1117
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-	0			99 1	1 10	07 1	03 1	2	990	103 1	~		m	102 1	0	0	100		16	95	93	95	95	9
1250 8	80	85 8	85	1 26	04 1	05 1	00	99 1	10	101	0.5	101	01	100	96	96	26	96	16	91	88	87	82	81
	9				02 1	03	80	1	0	66	66	66		26	96		16		90	87	83	80	92	ø
	4				00 1	01	9	2	0	26	26	96		46	95		90		82	81	11	72	99	ŗ.
2500 8	2			91			t	93	26	76	95	16		35	89		87		80	22	20	63	23	3
	5			68			2	91	95	35	95	91		88	98		85		14	29	61	25	38	Ŧ,
-	~			87			0	88	93	68	89	88		82	82		78		29	28	21	38	13	
2 0005	2			85			7	86	9.0	87	96	85		81	78		12		29	47	39	21		
•	m			82			2	83	87	84	83	82		11	73		99		64	34	54	-		
-	7			90			2	81	85	81	9.0	18		73	68		28		37	18	S			
				0							16	1.		63	0				2.5					
12500	67	9	900	200	200	200	77	200	78	12	200	0	4 4	÷ 6	2 0	2 c	2 4	25	3 12					
				73						20	89	949		20	46									
				20			0			9	62	58		45	35									
_				29			1			9	96	51		35	23									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TECHONS TERBURNER POWER TERBURNER POWER TITLE TO TERBURNER POWER TERBURNER POWER POWER TERBURNER POWER POWER TERBURNER POWER POWER TERBURNER POWER TITLE TO TERBURNER POWER TERBURNER POWER PARCELLANCE TO TERBURNER POWER TERBURNER POWER PARCEL PARCEL PARCEL PARCEL TO TERBURNER POWER TERBURNER POWER PARCEL	1:	-	PAGALLON						OMFGA 6.6
AIRSPEED = 350 KNOTS DELTA N = 0.0 DB DAGE II	•		(OPERATION:			METEOROLOGY TEMP			000
AL ALT** PNL PNLT** SEL SELT** (08A) (08A) (PN0B) (PN0B) (DB) (DB) (DB) (DB) 131*1 131*7 144*9 145*5 125*5 128*5 128*3 128*3 128*3 128*3 128*3 128*5			IRSPEED	350		- !	80 0.0		
131-1 131-7 144-9 145-5 128-6 128-5 128-6 128-6 128-6 128-6 128-6 128-6 128-6 128-6 128-6 128-6 118-6 <td< td=""><td>SLANT DISTANCE</td><td>F</td><td>ALT**</td><td>PN</td><td>PNLT*</td><td></td><td>SEL</td><td>SELT**</td><td>EPNL **</td></td<>	SLANT DISTANCE	F	ALT**	PN	PNLT*		SEL	SELT**	EPNL **
131.1 131.7 144.9 145.5 127.5 128.5 128.3 128.9 142.1 142.7 125.7 126.7 126.7 122.6 126.1 139.8 122.9 127.9 126.7 126.7 119.8 120.4 133.2 133.9 120.0 120.0 120.0 119.8 120.4 135.2 133.9 118.9 119.4 119.4 114.9 117.6 130.5 131.1 118.4 119.4 119.4 114.9 117.6 127.7 128.3 118.4 119.4 119.0 119.6 127.7 128.3 115.4 117.7 110.6 1107.0 121.6 122.2 113.4 114.4 110.6 1107.0 118.4 119.4 114.4 110.6 1107.0 118.4 115.7 110.4 110.6 1107.0 112.6 112.6 110.4 110.6 110.4 112.6 110.6 110.6 91.8 101.4 112.6 110.6 100.3 91.8 101.6 110.6 100.3 99.4 91.8 100.8 100.8 100.3 91.8 100.	(FEET)	(08A)	(08A)	(PN 08)	(PN03)		(08)	(08)	(EPNDB)
128.3 128.9 142.1 142.7 125.7 126.7 125.5 126.1 139.1 139.8 123.9 124.9 119.8 120.4 136.0 135.6 120.2 123.0 119.8 120.4 136.0 131.1 118.2 120.2 121.1 117.0 117.6 130.5 131.1 118.4 119.4 119.4 111.7 112.3 124.7 125.3 115.1 116.7 117.7 109.0 109.6 121.6 122.2 113.4 114.4 117.7 109.0 100.0 110.4 115.0 111.8 114.4 114.4 100.8 101.9 115.0 111.0 111.0 111.0 100.8 101.4 115.0 111.0 111.0 111.0 100.8 106.3 106.3 106.3 106.3 106.3 91.8 92.4 105.8 106.3 106.3 107.0 91.8 92.1 95.7 95.9 97.5 97.5 88.5 88.7 92.1 92.1 97.5 97.5 88.4 88.4 88.4 89.4 89.4 65.6 65.6 6	200	131.1	131.7	144.9	145.5		127.5		132.0
125.5 126.1 139.1 139.8 123.9 124.8 122.6 123.2 136.0 136.6 122.0 123.1 119.0 117.6 130.5 131.3 110.2 121.1 114.3 114.9 127.7 128.3 116.7 117.7 116.7 112.3 124.7 128.3 116.7 117.7 110.6 110.6 127.7 128.3 116.7 117.7 109.0 109.6 127.7 128.3 116.7 117.7 100.8 107.0 118.4 119.0 111.6 111.6 100.8 107.0 115.0 111.6 111.6 111.6 100.8 101.4 112.0 111.6 111.6 111.0 100.8 101.4 112.0 111.6 111.0 111.0 100.8 101.4 112.6 110.0 111.0 111.0 94.9 98.5 106.9 106.3 107.2 94.9 95.4 105.0 97.5 97.5 94.9 95.4 96.4 95.9 100.3 84.6 84.6 84.6 84.6 89.4 65.6 65.6 76.3 76	250	128.3	128.9	142.1	142.7		125.7		130.2
122.6 123.2 136.6 152.0 123.0 119.8 120.4 133.2 133.9 1120.2 121.1 110.8 114.9 127.7 128.3 116.7 117.7 111.7 112.8 121.6 122.2 111.6 117.7 110.9 110.9 110.6 111.6 111.6 114.4 110.6 110.6 112.6 122.2 111.6 112.7 100.8 101.4 112.0 115.7 111.6 112.7 100.8 101.4 112.0 112.0 111.0 111.0 100.8 101.4 112.0 112.0 110.0 110.0 97.9 98.5 108.9 109.5 100.3 107.2 94.9 95.4 102.9 100.3 107.2 107.2 94.9 95.7 95.9 90.4 99.9 97.5 97.7 85.1 86.5 96.7 95.9 97.5 97.7 86.6 66.9 80.7 96.9 96.9 96.9 86.9 86.4 86.4 86.3 86.3 86.9 66.9 80.7 96.9 96.9 86.9 66.9 <td< td=""><td>315</td><td>125.5</td><td>126.1</td><td>139.1</td><td>139.8</td><td></td><td>123.9</td><td></td><td>128.2</td></td<>	315	125.5	126.1	139.1	139.8		123.9		128.2
115.0 120.4 133.9 120.6 110.6	3 6	122.6	123.2	136.0	136.6		122.0		126.1
114.3 114.9 127.7 128.3 116.7 117.7 111.7 112.3 124.7 125.2 113.4 114.6 109.0 109.6 121.6 122.2 113.4 114.6 106.3 107.0 118.4 119.0 111.8 112.7 107.6 101.4 115.0 115.6 110.0 111.0 100.8 101.4 112.0 112.6 108.2 109.1 97.9 98.5 108.9 108.2 109.1 94.9 95.4 105.8 106.3 104.3 105.0 91.8 92.1 102.9 106.3 107.2 91.8 92.1 102.9 106.3 107.2 88.5 88.7 99.4 99.9 100.3 85.1 85.2 95.7 95.9 97.5 77.8 81.6 84.6 86.4 86.4 69.9 69.9 80.7 80.7 80.4 69.6 76.3 76.3 76.3 76.3 114.0 112.0 111.0 111.0 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3 100.3	900	117.0	117.6	130.5	131.1		118.4		122.6
111.7 112.3 124.7 125.3 115.1 116.0 109.0 109.6 121.6 122.2 113.4 114.4 106.3 107.0 118.4 119.0 111.8 112.7 107.6 107.0 115.0 111.8 112.7 107.9 108.5 112.6 111.8 111.0 107.9 108.6 112.6 110.0 111.0 97.9 98.5 108.9 109.1 109.1 91.8 95.4 102.9 100.3 100.3 88.5 88.7 99.2 99.4 99.9 100.3 85.1 85.2 95.7 95.9 97.5 97.5 77.8 77.8 86.4 86.4 86.4 89.4 69.9 69.9 69.9 80.7 80.4 89.4 69.6 69.9 69.9 76.3 76.3 76.3 76.3 76.3 76.3 76.3 76.3 76.3 76.3 76.3 83.1 116.0 93.1	900	114.3	114.9	127.7	128.3		116.7		120.8
109.0 109.6 121.6 122.2 113.4 114.4 106.3 107.0 118.4 119.0 111.8 112.7 107.6 104.2 115.0 115.0 111.8 112.7 100.8 101.4 112.0 112.6 108.2 109.1 97.9 98.5 108.9 109.5 106.3 107.2 94.9 95.4 105.8 106.3 107.2 91.8 92.1 102.9 106.3 107.2 88.5 88.7 99.4 99.4 99.9 100.3 85.1 85.2 95.7 95.9 97.5 97.5 77.8 77.8 88.4 88.4 88.4 88.4 88.4 74.0 74.0 84.6 84.6 89.4 69.9 69.9 69.9 80.7 89.4 65.6 65.6 76.3 76.3 76.3 83.1 83.1	1006		112.3	124.7	125.3		115.1	116.0	118.8
106.3 107.0 118.4 119.0 111.8 112.7 103.6 104.2 115.0 115.7 110.0 111.0 111.0 100.8 101.4 112.0 112.6 108.2 109.1 97.9 98.5 108.9 109.5 106.3 107.2 94.9 95.4 105.8 106.3 107.2 91.8 92.1 102.9 106.3 107.2 88.5 88.7 99.4 99.9 100.3 85.1 85.2 95.9 97.5 97.5 86.4 86.4 86.4 86.4 89.4 69.9 69.9 80.7 89.4 89.4 65.6 65.6 76.3 76.3 76.3 83.1 83.1	1250	109.0	109.6	121.6	122.2		113.4	114.4	116.7
103.6 104.2 115.0 115.7 111.0 111.0 100.8 101.4 112.0 112.6 108.2 109.1 97.9 98.5 108.9 109.5 106.3 107.2 94.9 95.4 105.8 106.3 107.2 107.2 91.8 92.1 102.9 102.9 106.3 107.2 88.7 99.2 99.4 99.9 100.3 100.3 85.1 85.2 95.9 97.5 97.5 97.7 77.8 77.8 86.4 88.4 88.4 88.4 74.0 84.6 84.6 84.6 89.4 69.9 69.9 80.7 80.7 86.3 65.6 65.6 76.3 76.3 83.1 63.1	1600	106.3	107.0	118.4	119.0		1111.8	112.7	114.4
100.8 101.4 112.0 112.6 108.2 109.1 97.9 98.5 108.9 109.5 106.3 107.2 1 94.9 95.4 105.8 106.3 107.2 1 1 91.8 92.1 102.9 102.9 105.0 1 88.5 88.7 99.2 99.4 99.9 100.3 1 85.1 85.2 95.9 97.5 97.5 97.7 77.8 77.8 86.4 88.4 88.4 95.0 95.0 74.0 84.6 84.6 84.6 89.4 89.4 69.9 69.9 80.7 80.7 86.3 86.3 65.6 65.6 76.3 76.3 83.1 63.1	2000	103.6	104.2	115.0	115.7		110.0	111.0	112.1
97.9 98.5 108.9 109.5 . 106.3 107.2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2500	100.8	101.4	112.0	112.6		108.2	109.1	110.1
94.9 95.4 105.8 106.3 104.3 105.0 1 91.8 92.1 102.5 102.9 102.2 102.7 1 88.5 88.7 99.4 99.4 99.9 100.3 1 85.1 85.2 95.7 95.9 97.5 97.7 77.8 77.8 86.4 88.4 88.4 89.4 89.4 89.4 89.4 65.6 65.6 65.6 76.3 76.3 76.3 83.1 63.1	3150	6.76	98.5	108.9	109.5		106.3	107.2	108.0
91.8 92.1 102.5 102.7 102.9 102.7 10	0004	6.46	4.56	105.8	106.3		104.3	105.0	105.6
88.5 88.7 99.2 99.4 99.9 100.3 1 85.1 85.2 95.7 95.9 97.5 97.7 77.8 77.8 86.4 86.4 86.4 89.4 89.4 89.4 89.4 89.4 65.6 65.6 65.6 76.3 76.3 76.3 83.1 83.1	2000	91.8	92.1	102.5	102.9		2	102.7	103.2
85.1 85.2 95.7 95.9 97.5 97.7 7.7 81.6 81.6 92.1 92.1 95.0 95.0 77.8 88.4 88.4 88.6 89.4 89.4 89.4 89.4 89.5 65.6 65.6 76.3 76.3 76.3 83.1 83.1	6300	88.5	88.7	99.5	4.66		6	100.3	10001
81.6 81.6 92.1 92.1 95.0 77.8 77.8 88.4 68.4 92.3 92.3 74.0 74.0 84.6 84.6 89.4 89.4 69.9 69.9 80.7 86.3 86.3 65.6 65.6 76.3 76.3 83.1 83.1	9000		2	2.56	6.36		-	7.76	
77.8 77.8 88.4 88.4 92.3 92.3 74.0 74.0 84.6 84.6 89.4 89.4 89.4 89.4 89.4 89.4 89.4 89.4	10000	81.6	81.6	92.1	92.1		95.0	95.0	95.3
74.0 74.0 84.6 84.6 89.4 89.4 69.9 69.9 80.7 80.7 86.3 86.3 86.3 65.6 65.6 76.3 76.3 83.1 83.1	12500	77.8	77.8	88.4	88.4		92.3	92.3	92.5
69.9 69.9 80.7 80.7 86.3 86.3 65.6 65.6 76.3 76.3 83.1 83.1	16000	74.0	74.0	94.6	84.6		4.68	89.4	2.68
65.6 65.6 76.3 76.3 83.1 83.1	20000	6 • 69	6.69	80.7	80.7		86.3	86.3	86.8
	25000	9.59	65.6	76.3	76.3		83.1	83.1	83.4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

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œ		**************************************			50 00 00	•		1.			• STE	. STE	 XE	· ×	· · · · · · · · · · · · · · · · · · ·	· ×			
AFTERBURNER POWER 2.45 EPR 0 KNOTS	REL HUMID = 70	St 8					•	22 23 25 26						•		STATE OF STATES AND ASSESSED.	×	XE	X
F-106 108 % RPM AIRSPEED = 350	TEMP = 59 F	NO. OF RECORDS:		•	•			33 24 35					10 00 00 00			•	STATE OF TRACTOR STATE		97

-	GROU	NO-T	GROUND-TO-GROUND	ONNO	PRO	PAGATI	TION														OMEG	•	9.9	
AIRCRAFT	r: F-106	9				OPER A	IR I	BURN X R	F. P. P. B.	300	5 EP	~		ETEC ELTA	ROLOGY TEMP REL HU	1. 5 :	= 01	59 7	L ×	<u> </u>	PROPS PAGE	CODE: CODE: FILE V	0 T H .	1 9 0 1 A A
SLANT DISTANCE (FEET)	11	18	161	20	12	22	23	24		FRE 26	QUEN 27	CY 8	AND 29	NUMB 30	31	1		34	35	36	37	38	68	; ;
200	66	96	9	108	116	116	112	-	115	113	*		113	112		12	-	12		-	-	~	4	0
250	97	36	8	106	114	114	110	109	113	111	111	111	1111	110	109	109	109	109	109	109	107	110	115	121
315	96	95	92	104	112	112	108	0	111	109	60		109	108	20	20	20	10	90	90	9	20	11	-
400	93	90	90	102	110	110	106	0	109	101	20		101	106	0.2	90	0.5	0.2	10	10	02	10	90	-
200	91	86	88	100	108	107	103	0	107	105	90		105	104	05	03	02	95	01	01	66	00	70	0
630	68	98	96	98	105	105	101	0	105	102	03		103	102	00	00	00	0	98	86	96	4		0
800	87	94	84	96	102	102	86		103	100	01		100	66	98	98	16	26	95	94	95	36	93	6
1000	85	82	82	93	66	66	98	76	101	86	66	86		26	95	95	95	46	95		88	87	87	80
1250	83	80	62	90	96	96	95	91	98	96	26	96		95	93	93	92	91	89		83	82	80	16
1600	81	92	92	98	93	95	88	88	95	76	46	*6		95	06	06	89	87	85		7.8	75	17	9
2000	11	73	72	83	89	89	94	9 4	91	92	92	91		89	87	87	85	94	80		72	29	61	5
2500	14	69	68	78	85	94	80	62	87	86	68	68		87	84	83	82	79	75		69	28	48	m
3150	7.0	49	63	73	80	79	15	14	83	84	98	98		83	81	9.0	11	14	69		96	24	33	+
0004	69	69	58	68	74	14	69	89	77	79	82	83		80	11	15	73	69	62		94	33	14	
2000	09	55	53	63	69	69	49	63	7.1	73	78	7.8		92	73	7.1	29	62	54		34	16		
6300	55	20	64	28	49	49	66	58	65	68	73	14		72	68	65	61	24	44		19			
8000	53	48	94	96	9	61	25	96	63	69	20	20	7.0	99	63	66	53	45	32	13	0			
0000	51	46	11	54		59	54		69	61	99	99	65	62	57		11	34	18					
12500	64	43	42	51		26	51		96	58	62	61	9	26	64		33	20						
6000	14	41	39	64		53	48		53	24	58	96	24	64	41		20	m						
20000	**	39	37	46	55	20	45	43	64	64	55	20	94	40	30	19	4							
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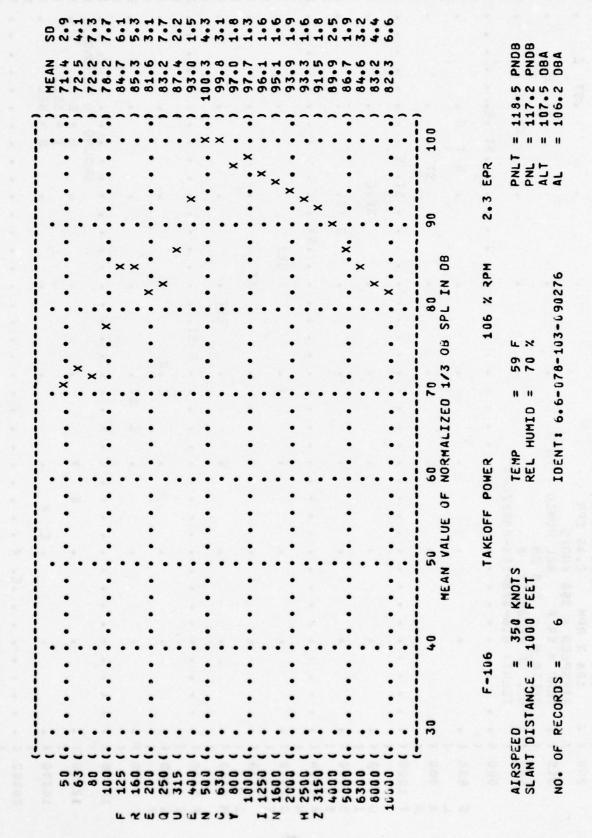
* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8 ** BAND WHICH DETERMINES THE TONE CORRECTION (C).

NIE POWER 1 HETEOROLOGY: 1 A/C CODE 1 SURNER POWER 2.45 EPR 1 DELTA N = 0.0 DB 1 PAGE H1 DNL PNLT**	TOCOACT		PRUPAGALION				~	OMEGA 6.6
AL ALT** PNL PNLT** SEL TATA (DBA) DELTA N = 0.0 DB) DGE H (DBA) (DBA) (DBA) (DBB)	•	34 A	(OPERATION: (AFTERBUR (108 %	0		# 0IW	60	CODE
AL ALT** PNL PNLT** SEL SELT** (DBA) (DBA) (PNDB) (PNDB) (PNDB) (DB) (DB) (DB) (DB) (DB) (DB) (DB) (0.00		(AIRSPEE	35	TS)	0.0	^ ^	
(DBA) (DBA) (PNDB) (PNDB) <td>LANT DISTANCE</td> <td>¥</td> <td>ALT**</td> <td>PNL</td> <td>PNLT**</td> <td>SEL</td> <td>SELT**</td> <td>EPNL **</td>	LANT DISTANCE	¥	ALT**	PNL	PNLT**	SEL	SELT**	EPNL **
126.1 126.9 139.9 140.7 122.5 123.6 120.5 121.3 137.1 137.9 110.7 121.8 117.6 118.4 131.0 131.8 117.0 118.1 117.6 118.4 113.2 128.2 129.0 116.3 116.8 112.8 128.2 129.0 115.2 116.3 106.6 117.0 112.1 116.2 113.4 116.3 106.6 107.3 119.4 120.2 113.4 110.0 111.1 107.0 107.0 112.6 113.4 106.4 107.5 101.0 101.8 112.6 113.4 106.4 107.5 101.0 101.8 110.6 106.4 107.5 98.1 98.9 100.6 101.4 106.4 107.5 97.0 98.5 96.1 96.7 90.6 90.6 97.1 76.9 86.1 86.7 90.6 90.6 70.3 77.1 77.1 87.3 87.6 70.4 77.1 77.1 77.3 77.4 77.4 77.5 54.8 54.8 54.8 54.8 54.8	(FEET)	(08A)	(084)	(PN08)	(PNOB)	(80)	(08)	(EPNDB)
123.3 124.1 137.1 137.9 120.7 121.8 1120.5 121.3 134.2 134.9 118.9 120.0 1114.6 118.4 131.0 131.0 118.9 120.0 112.0 112.6 128.2 129.0 115.2 116.1 112.0 112.6 120.2 113.4 114.5 100.6 107.3 119.4 120.2 111.7 112.6 101.0 101.8 112.6 113.4 110.0 111.1 101.0 101.8 112.6 113.4 110.0 111.1 101.0 101.8 112.6 113.4 110.0 111.1 103.6 104.6 110.0 111.1 107.5 107.5 96.1 96.9 106.6 107.6 107.6 107.5 97.7 96.1 96.7 97.3 98.2 98.7 86.1 86.4 90.6 90.6 70.3 77.1 87.3 87.6 70.4 77.1 87.3 79.4 65.3 61.3 61.3 67.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0 <td< td=""><td>200</td><td>126.1</td><td>126.9</td><td>139.9</td><td>140.7</td><td>122.5</td><td>123.6</td><td>127.1</td></td<>	200	126.1	126.9	139.9	140.7	122.5	123.6	127.1
120.5 121.3 134.2 134.9 118.9 120.0 117.6 118.4 131.0 131.8 117.0 118.1 114.6 115.6 125.2 125.9 115.2 116.3 112.0 112.8 125.4 126.2 113.4 114.5 106.6 107.3 119.4 120.2 111.7 112.8 106.6 107.3 119.4 120.2 110.0 111.1 103.8 104.6 115.1 116.9 106.4 107.5 101.0 101.8 112.6 113.4 106.4 107.5 101.0 101.8 110.6 106.4 107.5 106.4 107.5 98.1 98.9 108.8 109.6 106.4 107.5 96.2 98.1 104.8 106.6 101.4 100.4 103.5 98.2 96.1 96.1 96.1 96.1 96.1 97.3 86.1 86.4 96.7 97.3 97.3 70.4 77.1 77.1 77.8 77.8 77.8 59.9 65.3 57.3 57.3 77.4 56.9 59.9 61.3 61.3 77.4 57.8	250	123.3	124.1	137.1	137.9	120.7	121.8	125.3
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114,6 115,6 128,2 129,0 115,2 116,3 112,0 112,6 126,4 126,2 1113,4 114,5 109,3 110,0 122,5 123,3 111,7 112,8 103,8 104,6 116,1 116,9 100,2 100,2 101,0 101,8 112,6 113,4 106,4 107,5 98,1 98,9 104,8 109,6 106,4 107,5 91,6 95,8 104,8 109,6 106,4 107,5 91,6 96,9 100,6 100,6 107,6 107,5 91,6 96,7 96,7 97,3 94,8 83,7 86,1 96,7 96,7 94,1 70,3 77,1 81,6 91,0 70,3 77,1 77,1 77,3 53,9 53,9 61,3 67,0 67,0 53,9 54,8 54,8 56,0 65,0 65,0 65,0 67,0 67,0 65,0 65,0 65,0 65,0 65,0 65,0 65,0 65,0 65,0 65,0 65,0 65,0 65,0	004	117.6	118.4	131.0	131.8	117.0	118.1	121.2
112.0 112.6 122.5 123.3 111.7 114.5 106.6 107.3 119.4 120.2 110.0 111.1 107.0 101.0 112.6 113.4 108.2 109.3 101.0 101.8 112.6 113.4 106.4 107.5 98.1 98.9 108.8 109.6 106.4 107.5 98.1 98.9 108.8 108.6 107.6 107.5 97.9 92.4 100.6 101.4 100.1 101.2 97.9 88.5 96.1 96.7 97.3 98.2 98.7 96.7 96.7 97.3 98.2 98.9 86.1 86.4 96.7 97.3 98.2 70.3 77.1 77.1 87.6 91.0 70.3 77.1 77.1 83.7 87.6 59.9 59.9 67.0 67.0 67.0 65.0 59.9 59.9 67.0 67.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0	200	114.8	115.6	128.2	129.0	115.2	116.3	119.4
106.6 107.3 119.4 120.2 1110.0 111.1 103.8 104.6 116.1 116.9 108.2 109.3 101.0 101.0 112.6 113.4 106.4 107.5 98.1 98.9 108.8 109.6 106.4 107.5 95.0 95.8 104.8 105.5 102.4 103.5 91.6 92.4 100.6 101.4 96.7 97.3 98.2 83.7 84.2 96.1 96.7 97.3 98.2 83.7 84.2 91.2 91.7 94.8 70.3 75.1 81.6 81.8 87.3 87.6 70.3 70.3 77.1 77.1 87.3 87.6 85.3 65.3 77.1 77.1 87.3 79.8 85.9 65.3 67.0 67.0 67.0 67.0 83.9 61.3 61.3 61.3 65.0 85.0 65.0 67.0 67.0 67.0	200	112.0	116.8	1750.4	120.2	113.4	114.5	117.7
106.6 107.3 119.4 120.2 110.0 111.1 103.8 104.6 115.1 116.9 108.2 109.3 101.0 101.8 112.6 113.4 106.4 107.5 98.1 98.9 108.8 109.6 106.4 107.5 95.0 95.0 104.8 105.5 106.4 107.5 91.6 95.0 104.8 105.5 102.4 107.5 91.6 92.4 100.6 101.4 100.1 101.2 87.9 88.5 96.1 96.7 97.3 98.2 83.7 86.1 86.4 90.6 91.0 70.3 77.1 81.8 87.6 85.3 65.3 77.1 77.1 83.7 85.9 59.9 67.0 67.0 67.0 67.0 47.5 47.5 54.8 54.8 65.0 65.0		5 • 6 0 7	•	6.777	0 • 6 7 7) • III	116.0	11201
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101.0 101.8 112.6 113.4 106.4 107.5 98.1 98.9 108.8 109.6 104.6 105.7 95.0 95.8 104.8 105.5 102.4 103.5 91.6 92.4 100.6 101.4 100.1 101.2 87.9 88.5 96.1 96.7 97.3 98.2 83.7 84.2 91.2 91.7 94.1 94.8 79.1 79.5 86.1 86.4 90.6 91.0 70.3 70.3 77.1 77.1 87.6 85.3 65.3 77.3 77.3 77.3 77.3 85.9 59.9 67.0 67.0 67.0 67.0 67.0 47.5 47.5 54.8 54.8 65.0 65.0	1250	103.8	104.6	116.1	116.9	108.2	109.3	111.3
98.1 98.9 108.8 109.6 100.6 105.7 1 95.0 95.8 104.8 105.5 102.4 103.5 1 91.6 92.4 100.6 101.4 100.1 101.2 1 87.9 88.5 96.1 96.7 97.3 98.2 88.1 79.1 79.5 84.2 91.0 1 87.0 70.3 70.3 77.1 77.1 87.1 83.7 83.7 83.7 85.3 87.6 85.3 87.6 87.3 87.6 87.3 87.6 87.3 87.6 87.3 87.6 87.5 87.6 87.5 87.6 87.5 87.6 87.5 87.6 87.6 87.6 87.6 87.6 87.6 87.6 87.6	1600	101.0	101.8	112.6	113.4	106.4	107.5	108.8
95.0 95.8 104.8 105.5 102.4 103.5 1 91.6 92.4 100.6 101.4 100.1 101.2 87.9 88.5 96.1 96.7 97.3 98.2 83.7 84.2 91.2 91.7 94.1 94.8 79.1 79.5 86.1 86.4 90.6 91.0 74.9 75.1 87.1 77.1 87.1 83.7 83.7 65.3 65.3 72.3 72.3 72.3 75.3 75.3 55.3 53.9 53.9 61.3 61.3 61.3 65.0 65.0	2000	98.1	98.9	108.8	109.6	104.6	105.7	106.0
91.6 92.4 100.6 101.4 100.1 101.2 87.9 88.5 96.1 96.7 97.3 98.2 88.7 84.2 91.2 91.7 94.1 94.8 79.8 79.8 79.8 77.1 77.1 87.3 87.5 83.7 83.7 85.7 85.7 85.9 85.9 85.9 85.9 85.9 87.8 87.8 75.3 75.3 75.3 75.3 75.3 75.3 75.3 75.3	2500	95.0	95.8	104.8	105.5	102.4	103.5	103.0
87.9 88.5 96.1 96.7 97.3 98.2 83.7 84.2 91.2 91.7 94.1 94.8 79.1 79.5 86.1 86.4 91.6 91.0 74.9 75.1 81.6 81.8 87.3 87.6 70.3 70.3 77.1 77.1 83.7 83.7 65.3 65.3 72.3 72.3 72.3 75.3 75.3 53.9 53.9 61.3 61.3 61.3 67.0 65.0 47.5 47.5 54.8 54.8 65.0 65.0	3150	91.6	95.4	100.6	101.4	100.1	101.2	8.66
83.7 84.2 91.2 91.7 94.1 94.8 79.1 79.5 86.1 86.4 90.6 91.0 74.9 75.1 81.6 81.8 87.3 87.6 70.3 70.3 77.1 77.1 83.7 83.7 65.3 65.3 72.3 72.3 72.3 79.8 53.9 53.9 61.3 61.3 61.3 70.4 47.5 47.5 54.8 54.8 65.0 65.0	4000	87.9	88.5	96.1	2.96	97.3	98.2	96.1
79.1 79.5 86.1 86.4 90.6 91.0 74.9 75.1 81.6 81.8 87.3 87.6 70.3 70.3 77.1 77.1 83.7 83.7 85.7 85.9 59.9 59.9 61.3 61.3 61.3 65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0	2000	83.7	84.2	91.2	91.7	94.1	8.46	92.0
74.9 75.1 81.6 81.8 87.3 87.6 70.3 70.3 77.1 77.1 83.7 83.7 65.3 65.3 72.3 72.3 79.8 79.8 59.9 59.9 67.0 67.0 75.3 75.3 53.9 61.3 61.3 61.3 70.4 70.4 47.5 47.5 54.8 54.8 65.0 65.0	6300	79.1	79.5	86.1	86.4	9006	91.0	1.18
70.3 70.3 77.1 77.1 83.7 83.7 65.3 65.3 72.3 72.3 72.3 79.8 59.9 59.9 67.0 67.0 67.0 75.3 75.3 53.9 53.9 61.3 70.4 70.4 47.5 47.5 54.8 54.3 65.0 65.0	8000	74.9	75.1	81.6	81.8	87.3	87.6	•
65.3 65.3 72.3 72.3 72.3 79.8 79.8 59.9 67.0 67.0 67.0 75.3 75.3 53.9 61.3 61.3 61.3 70.4 70.4 47.5 47.5 54.8 54.8 65.0 65.0	10000	70.3	70.3	77.1	77.1	83.7	83.7	
59.9 59.9 67.0 67.0 67.3 75.3 75.3 53.9 53.9 61.3 61.3 70.4 70.4 70.4 47.5 47.5 54.8 54.3 65.0 65.0	12500	65.3	65.3	72.3	72.3	19.8	79.8	76.4
53.9 53.9 61.3 61.3 70.4 70.4 70.4 47.5 47.5 54.8 54.8 54.8 65.0	16000	6.65	59.9	67.0	67.0	75.3	75.3	72.2
0 47.5 47.5 54.8 54.8 65.0 65.0	20000	53.9	53.9	61.3	61.3	70.4	70.4	4.79
	25000	47.5	47.5	54.8	54.8	65.0	65.0	62.0

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

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250	315	400	500	630	800	1000	1250	1600	2000	2500	315	0004	5000	6300	8000	10000	12500	16000	20000	25000

SET SET



	AIR-1	0-6	AIR-TO-GROUND	PR	PAG	ATION	z														OME	MEGA	9.9	
AIRCRAFT	F-106					OPER!	AKEOFF 106 % IRSPEE		POWER RPM = 35	2.3 b		~	2222	ETEO ELTA	ROLOG TEMP REL T	- 5 6	10 10 00 00 00 00 00 00 00 00 00 00 00 0	20 20	L ×	7	PROPS PAGE	000 116 116 116	B	078 103 R: A
SLANT DISTANCE (FEET)	17	18	61	50	22	22	23	2 4	52	FREG 26	QUENCY 27 2	0 0	AND 29	NUMB	31 31	32	33	i i	35	36	37	99	86	3
200	85	18	98	26	96	66	96	æ 4	20	70	15	115	112	113	-	40	40	-	10	111	80 4	110	113	120
315	81	83	82	88	95	35	95	+	98		11		108	109	10	0	0	0	90	106	03	104	107	112
200	73	23	90	86	93	93	90	91	96	99	109		106	107	105	105	104	104	103	103	101	101	103	108
630	12	11	92	82	68	68	86	87	95		90		101	102	0	0	9	9	96	16	16	16	95	97
800	73	52	42	96	87	87	4.0	8 2	83		0.5		66	100			16	96	2	16	91	68	68	90
1000	7.1	73	72	78	85	85	82			93	100	100	16	98	96	95	76		95	90	87		83	82
1250	69	11	20	92	83	83	9.0			91	98		96	96	46	95	91		88	98	82		92	73
1600	29	99	9	14	81	81	22	29	83	68	96	95	92	93	91	90	88	87	4 6	81	2:	2	9 1	61
2000	62	9 .	99	22	2 2	52	22			98	46	86	90	90	100 c	200	5 6		9 6	9 6	2		25	4
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0004	29	90	00	99	72	23	69			25	86	85	8	81	78	15	72		62	53	40		12	
2000	25	58	58	49	20	20	99			92	83	82	78	11	74	7.1	29		24	43	34			
6300	55	96	96	61	89	68	49			14	80	2	14	73	20	69	9		*	30	19			
8000	53	24	53	29	69	99	61			11	11	22	2.0	69	49	23	23		33	15	-			
10000	51	25	51	25	63	63	69			29		11		63	28		*	34	19					
12500	64	64	6+	24	09	9	99	25	09	19	69	99	09	21	21	43	34	21	~					
16000	94	14	94	25	28	28	53			9		61		20	43		21	r						
20000	*	45	*	64	22	25	20			22		25		45	35		9							
25000	67	0			C									•										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS! 6

* BAND WHICH DETERMINES THE TONE CORRECTION (C).

	AIR-TO-GROUND PROP	AGATION				~	OMEGA 6.6
AIRCRAFT: F-106		(OPERATIONS TAKEOFF 106 %	POWER 2.3 E	a a a a a a	METEOROLOGY: TEMP = REL HUMID = DELTA N = 0.0 08	59 F 70 %	A/C CODE: 178 OPS CODE: 103 PROFILE VER: A 19 FEB 76 PAGE I2
SLANT DISTANCE (FEET)	AL (08A)	AL T ** (08 A)	PNL (PNDB)	PNLT**	SEL (08)	SELT**	EPNL **
200	123.9	125.2	136.2	137.5	121.8	123.0	125.5
250		122.7	133.4	134.8	120.3	121.5	123.8
315	118.9	120.2	130.9	132.2	118.8	120.0	122.2
004	-	117.7	128.4	129.7	117.3	118.4	120.7
200		115.1	125.7	127.1	115.7	116.9	119.1
630	•	112.6	123.0	124.3	114.2	115.3	117.4
800	108.7	110.0	120.5	121.5	112.6	113.8	115.5
1000	106.2	107.5	117.2	118.5	1111.1	112.2	113.5
1250	103.5	104.9	114.0	115.3	109.4	110.6	111.4
1600	100.9	102.2	110.7	112.0	107.8	108.9	109.0
2000	98.1	4.66	107.4	108.7	106.0	107.2	106.7
2500	95.2	96.5	104.2	105.5	104.1	105.3	104.6
3150	92.2	93.5	100.9	102.2	102.1	103.3	102.3
0004	89.1	90.1	97.5	98.6	100.0	100.9	9.66
5000	85.7	86.5	0.46	8.46	97.6	98.3	8.96
6300	82.2	82.7	90.3	90.8	95.1	95.6	93.9
9000	78.4	78.6	86.3	86.6	92.3	95.5	2.06
10000	74.3	74.3	82.2	82.2	89.2	89.2	87.3
12500	69.8	69.8	77.6	77.6	85.7	85.7	
16000	64.8	8.49	72.7	72.7	81.7	81.7	6.62
20000	59.4	59.4	67.3	67.3	77.3	77.3	15.4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

250 (.	315 (.) (00		, 009	630 (•	800 (•	1000	1250 (.	1600 (.	2000 (2500 (.	3150 (.	.) 000+	2000 (6300 (•	8000 6	10000 (12500 (.	16000 (.	20000 (25000 (
F-106 2	TEMP = 59 F	NO. OF	IDENT	•			:			:				:			:				
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TAKEOFF	REL	0.0 08	78-103		•	•		•	•	:				:	•	•	:			13/8	E
F POWER	MID		103-090276-A	•			:			:				•			:			E.X.	E-X
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ABLE	GROU	NO-T	GROUND-TO-GROUND	OUND	8 8	OPAGA	AGATION	2	2			5	25.41		3 4 6	000				:- -	OMEG	17 16 6A	OMEGA 6.6	ž
AIRCRAFT 8	F-106	٠			~~~~	OPER T	AKE 10 18		POWER RPM = 35	2 . 3 6 KNO	3 EP	œ		EL EL	Z S Z			= 59 = 70 B	L X	1	A/C OPS PROF 09 F	0000 T	E: 0	8 9 9 8 A A
SLANT DISTANGE (FEET)	ä	81	67	20	21	22	23	54	52	FRE 26	QUENCY 27 28	CY B	AND 29	NUMBER 30	31 31	32	33	at m	35	36	37	3.8	89	3
200 250 315	786	82 80 82	13 22	83	96	95	91		95	100		1110	107 105 103	108 106 104	107 105 103	106 104 102	100	106	105	106	103 101 98	105	108	115 111 107
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1600 1600 2000	9 4 7 5 6	99 2 6 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	64 64 57	72 69 65 65	77 72 72 72 72 72 72 72 72 72 72 72 72 7	82229	71 71 67 63	7 2 2 3 2 9 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9	759	86 86 84 81	93	90 93		9 9 9 9 9 9 9	91 89 89 88	0 0 0 0	80 80 80 80 80 80	9 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	83 79 75	85 76 75	82 77 72 66	90 90 90 90 90 90 90 90 90 90 90 90 90 9	78 71 63	568
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* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6

* BAND WHICH DETERMINES THE TONE CORRECTION (C).

GROUND-T	GROUND-TO-GROUND F	PROPAGATION					-	OMEGA 6.6
AIRCRAFT: F-106		(OPERATION: (TAKEOFF (106 %	POWER 2.	2.3 EPK	METEOROLOGY: TEMP REL HU	# 01W	59 F)	A/C CODE: 078 OPS CODE: 103 PROFILE VER: A
		(AIRSPEED	= 350	KNOTS	DELTA N =	0.0 08		09 FEB 76 PAGE M2
SLANT DISTANCE	A.	ALT**	PNL	PNLT**		SEL	SELT**	EPNL **
(FEET)	(08A)	(D8A)	(PN03)	(PNOB)		(80)	(08)	(EPNDB)
200	118.9	120.2	131.2	132.5		116.8	118.0	120.5
250	116.4	117.7	128.4	129.7		115.3	116.5	118.8
315	113.9	115.2	125.9	127.2		113.8	115.0	117.2
007	111.4	112.7	123.4	154.7		112.3	113.4	115.7
200	108.8	110.1	120.7	122.0		110.7	111.9	114.0
636	106.3	107.6	118.0	119.3		109.2	•	112.3
800	103.7	105.0	115.1	116.4		107.6	108.8	110.4
1000	101.2	102.5	112.1	113.4		106.0	107.2	108.4
1250	98.5	8*66	108.8	110.1		104.4	105.6	106.1
1600	6.56	97.2	105.4	106.7		102.7	103.9	103.7
2000	93.1	4.46	101.9	103.2		101.0	102.1	101.2
2500	90.2	91.5	98.4	2.66		0.66	100,2	7.86
3150	6.98	88.2	64.5	95.8		8.96	98.0	95.8
0004	83.3	84.4	0	91.3		84.2	95.1	92.3
2000	79.2	80.0	2	86.3		91.1	91.8	88.3
6300		75.3	80.4	81.0		87.7	88.1	84.1
8000	70.6	70.9	•	76.3		84.5	+	4.08
10000	66.1	66.1	71.4	71.4		81.0	81.0	76.5
12500	61.2	61.2	4.99	999		77.1	77.1	72.6
16000	55.7	55.7	6.09	6.09		72.6	72.6	68.1
20000	49.7	49.7	24.8	54.8		9.19	9.29	65.9
00000								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

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**																										×				_	+	
7.0																										×				_	84.	
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25																									×					_	0	
115																										×				_	M	9
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			F-1	-106					AP	PRO	APPROACH		POWER	œ						93	×	A D M	I		+	1.7	EPR					
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TABLE	SOUN AIR-	10-01	SOUND PRESSURE	JRE TO PE	. LEVEL PROPAG	A	SPECTRA	A PS	A FU	FUNCTION		OF SL	SLANT	0151	DISTANCE	(08)	:				DENT	IDENTIFICATION OMEGA 6.6	ATI0	ž
AIRGRAFT	F-106	9				OPER	APPROACH 93 % RI	A A CH	NO WE		1.7 EPR	ω	10000	ETEO	METEOROLOGY: TEMP REL HU	HUMI	01	59	L ×	1	PROFI	8 5 0 0		078 105 Rt A
SLANT DISTANCE (FEET)	17	\$	19	28	7 2	22	23	11 0	52	26 FR	QUENCY 27 28		29 A 29	NG MG	31	32		**	35	36	37	. 8	39	1 3
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1000 1250 1600 2000 2500	65 65 65 65 65	73 69 69 64 64	66 68 70	2222	8 8 8 7 8 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	52222	18672	773	25228	82 80 77 75	82 77 75		77 75 75 69	73 73 74 74 74 74 74 74 74 74 74 74 74 74 74	78 72 69 69	68778	76 69 65 61	73 66 61 56	5000	4 4 M M M	3 3 4 5 3 3	24 24 24 24 24 24 24 24 24 24 24 24 24 2	1,24
3150 4600 5060 6300 8000	2247	26862	52 52 53 54 54 54 54 54 54 54 54 54 54 54 54 54	5666	750 24 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	426954	56368	6666	669	202 4 5 6 2 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5	565	20000	2211	50 50 50 50 50 50 50 50 50 50 50 50 50 5	4 0 0 0 0 t	443386	440000 040000	26 43 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	125 34 4 50 50 50 50 50 50 50 50 50 50 50 50 50	232	21.75	320		
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* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS! 8 SAND WHICH DETERMINES THE TONE CORRECTION (C).

(OPERATION!) HETEOROLOGY! A/C CODE!		AIR-TO-GROUND PROP	AGATION					OMEGA 6.6
AL ALT** PNL PNLT** (DBA) (DBA) (DBB) (DBB	••		OPERATIONS APPROAC		EPR	HIO	59	A/C CODE: 078 OPS CODE: 105 PROFILE VER:
ANCE (DBA) (DBA) (PNDB) (PNDB) (DB) (DB) (DB) (DB) (DBA) (DBA) (PNDB) (PNDB) (DB) (DB) (DB) (DB) (DB) (DB) (DB) ((AIRSPEE	= 200	TS)	0 0		13
105.1 (DBA) (PNDB) (PNDB) (DBA) <	LANT DISTANCE	AL	ALTOO	PNL	PNLT**	SEL		EPNL**
105.1 105.6 118.4 118.9 1104.7 105.6 103.0 103.5 116.1 116.7 103.5 104.4 100.8 101.3 113.6 114.3 102.3 103.2 96.5 96.5 101.6 110.6 103.2 103.2 96.0 96.0 100.6 100.7 98.5 100.7 96.1 87.1 101.0 101.6 98.7 96.6 86.0 87.1 101.7 96.2 95.7 96.6 86.0 84.6 95.7 96.6 93.7 86.0 84.6 95.7 96.6 93.5 81.4 81.9 96.7 96.6 93.5 81.4 81.9 96.7 96.2 96.7 86.0 86.0 86.6 96.7 96.6 86.0 86.0 86.6 96.1 87.3 86.0 86.0 86.0 86.6 96.1 87.3 86.0 86.0 86.0 86.6 96.9 91.8 91.8 86.0 86.0 86.0 87.3 86.0 86.0 86.0 86.0 87.3 86.0 86.0 86.0 <td< td=""><td>(FEET)</td><td>(DBA)</td><td>(08A)</td><td>(PN 08)</td><td>(PN08)</td><td>(80)</td><td></td><td>(EPNDB)</td></td<>	(FEET)	(DBA)	(08A)	(PN 08)	(PN08)	(80)		(EPNDB)
103.0 103.5 116.1 116.7 103.5 104.4 100.8 101.3 111.5 114.3 114.3 102.3 103.2 96.5 99.1 111.5 112.0 101.1 102.0 96.7 96.8 109.0 109.0 109.0 100.7 96.0 92.1 106.5 107.0 98.5 99.4 96.6 97.1 98.2 98.7 96.5 99.4 86.0 87.1 98.2 98.7 96.5 99.4 86.0 84.6 95.7 96.5 96.6 97.1 98.0 86.0 84.6 97.1 98.0 97.1 98.0 86.0 86.5 97.7 96.6 97.2 97.1 98.0 86.0 86.5 97.7 97.6 97.3 88.2 97.2 77.7 73.1 82.8 83.3 87.3 86.0 97.3 66.5 76.1 76.3 86.0 87.3 86.0 66.5 76.1 76.3 86.0 77.2 78.5 78.7 56.6 59.3 66.8 55.8 56.8 57.8 57.8 67.7 47.6 <td< td=""><td>200</td><td>105.1</td><td>105.6</td><td>118.4</td><td>118.9</td><td>104.7</td><td></td><td>109.2</td></td<>	200	105.1	105.6	118.4	118.9	104.7		109.2
100.6 101.3 114.3 114.3 116.3 102.3 103.2 98.5 99.1 111.6 112.0 98.6 100.7 96.6 109.0 109.5 98.6 99.6 94.0 94.5 106.5 107.0 98.6 99.6 91.6 92.1 104.3 104.3 98.6 99.6 99.6 84.0 97.1 98.2 98.7 96.7 96.6 96.6 97.1 98.0 84.0 84.6 97.1 104.3 97.1 98.0 97.1 98.0 97.1 98.0 97.1 98.0 97.1 98.0 97.1 98.0 97.1 98.0 97.1 98.0 97.1 98.0 97.1 98.0 97.1 98.0 97.2 95.7 96.6 97.2 96.6 97.2 96.6 97.1 98.0 97.1 98.0 97.1 98.0 97.1 98.0 97.2 96.6 97.2 96.6 97.2 96.6 97.2 96.6 97.2 96.0 97.2 96.6 97.2 96.0	250	103.0	103.5	116.1	116.7	103.5		108.0
98.5 99.1 111.5 112.0 101.1 1012.0 101.1 102.0 109.5 99.8 100.7 99.8 100.7 99.8 100.7 99.8 100.7 99.8 100.7 99.6 99.6 100.7 99.6 100.7 99.6 100.7 99.6 100.7 99.6 100.7 99.6 100.7 99.6 99.6 99.6 99.6 99.7 99.6 99.7 99.6 99.7 99.6 99.7 99.6 99.7 99.6 99.7 99.6 99.7 99.6 99.7 99.6 99.7 99.6 99.7 99.6 99.7 99.6 99.7 99.6 99.7 99.6 99.7 99.6 99.7 99.6 99.7 99.6 99.7 99.6 99.7 99.6 99.6	315	100.8	101.3	113.8	114.3	102.3		106.7
94.0 94.5 105.0 109.0 109.5 99.8 100.7 99.8 100.7 99.8 99.4 99.6 99.4 99.6 99.4 99.6 99.4 99.6 99.4 99.6 99.4 99.6 99.6	007	98.5	99.1	111.5	112.0	101.1		105.3
99.1 99.7 101.0 101.0 101.0 99.7 99.0	200	5.96	90.00	109.0	109.5	8.66		103.8
89.1 89.7 101.0 101.6 95.7 96.6 86.6 87.1 98.2 98.7 96.7 96.6 84.0 84.6 95.2 98.7 95.1 95.1 81.4 81.9 92.1 92.6 93.5 95.1 78.6 79.1 89.6 89.1 90.1 91.8 75.7 76.2 86.0 86.5 87.3 86.2 72.7 73.1 82.8 83.3 85.3 86.2 66.3 66.5 76.1 76.3 80.9 81.3 86.2 66.3 66.5 76.1 76.3 80.9 81.3 85.3 81.3 62.9 63.0 72.6 72.7 78.7 78.7 78.7 59.3 59.3 68.8 68.8 75.9 75.9 55.6 55.6 60.5 76.2 77.2 77.2 47.6 47.6 47.6 55.8 55.8 67.1 67.1 60.3 60.5 60.8 50.8 50.8 63.8 </td <td>900</td> <td>91.6</td> <td>92.1</td> <td>103.8</td> <td>104.3</td> <td>97.1</td> <td>98.</td> <td>100.6</td>	900	91.6	92.1	103.8	104.3	97.1	98.	100.6
89.1 89.7 101.0 101.6 96.7 96.6 86.6 87.1 98.2 98.7 94.2 95.1 84.0 84.6 95.2 95.7 92.6 93.5 81.4 81.9 92.1 92.6 93.5 78.6 79.1 89.0 89.6 90.9 91.8 75.7 75.1 85.8 83.3 87.3 88.2 75.7 73.1 82.8 83.3 85.3 86.0 65.6 69.9 79.6 79.9 83.1 81.3 66.3 66.5 76.1 76.3 80.9 81.3 62.9 63.0 72.7 78.5 78.7 55.6 55.6 64.7 64.7 77.2 77.2 55.6 55.6 64.7 64.7 77.2 77.2 47.6 47.6 55.8 55.8 67.1 67.1 43.3 43.3 50.8 50.8 50.8 63.8 63.8								
86.6 87.1 98.2 98.7 94.2 95.1 84.0 84.6 95.2 95.7 92.6 93.5 81.4 81.9 92.1 92.6 93.5 78.6 79.1 89.0 89.6 89.1 90.9 75.7 76.2 86.0 89.6 87.3 86.0 72.7 73.1 82.8 83.3 85.3 86.0 69.6 69.9 79.6 79.9 81.3 86.0 66.3 66.5 76.1 76.3 80.9 81.3 62.9 63.0 72.6 72.7 78.5 78.7 59.3 59.3 68.8 68.8 75.9 75.9 55.6 64.7 64.7 70.2 70.2 47.6 47.6 55.8 55.8 67.1 67.1 43.3 43.3 50.8 50.8 50.8 63.8 63.8	1000	89.1	7.68	101.0	101.6	1.26	96	6.86
84.0 84.6 95.2 95.7 92.6 93.5 81.4 81.9 92.1 92.6 90.9 91.8 78.6 79.1 89.0 89.6 89.1 90.1 75.7 76.2 86.0 86.5 87.3 86.0 72.7 73.1 82.8 83.3 85.3 86.0 69.6 69.9 79.6 79.9 81.3 86.0 66.3 66.5 76.1 76.3 80.9 81.3 62.9 63.0 72.7 78.5 78.7 59.3 59.3 68.8 75.9 75.9 55.6 64.7 64.7 73.2 73.2 47.6 47.6 55.8 55.8 67.1 67.1 43.3 43.3 50.8 50.8 50.8 63.8 63.8	1250	96.6	87.1	98.2	7.86	94.2	95.	97.0
81.4 81.9 92.1 92.6 90.9 91.8 78.6 79.1 89.0 89.6 89.1 90.1 75.7 76.2 86.0 86.5 87.3 88.2 69.6 69.9 79.6 79.9 83.1 83.7 66.3 66.5 76.1 76.3 80.9 81.3 62.9 63.0 72.6 72.7 78.5 78.7 59.3 59.3 68.8 68.8 75.9 75.9 55.6 55.6 64.7 64.7 70.2 70.2 47.6 47.6 55.8 55.8 67.1 67.1 43.3 43.3 50.8 50.8 63.8 63.8	1600	84.0	9.48	95.2	95.7	95.6	93.	95.0
78.6 79.1 89.0 89.6 89.1 90.1 75.7 76.2 86.0 86.5 87.3 88.2 72.7 73.1 82.8 83.3 87.3 86.0 69.6 69.9 79.6 79.9 83.1 83.7 66.3 66.5 76.1 76.3 80.9 81.3 62.9 63.0 72.7 78.5 78.7 59.3 59.8 68.8 75.9 75.9 55.6 55.6 64.7 64.7 73.2 73.2 47.6 47.6 55.8 55.8 67.1 67.1 43.3 43.3 50.8 50.8 63.8 63.8	2000	81.4	81.9	92.1	95.6	6.06	91.	6.26
75.7 76.2 86.0 86.5 87.3 88.2 72.7 73.1 82.8 83.3 85.3 85.0 69.6 69.9 79.6 79.6 79.9 83.1 83.7 66.3 66.5 76.1 76.3 80.9 81.3 62.9 63.0 72.7 78.5 78.7 59.3 59.3 68.8 68.8 75.9 75.9 55.6 55.6 64.7 64.7 73.2 73.2 73.2 47.6 47.6 47.6 55.8 55.8 67.1 67.1 43.3 43.3 50.8 50.8 63.8 63.8	2500	78.6	79.1	89.0	89.6	89.1	-06	6.06
72.7 73.1 82.8 83.3 85.3 86.0 69.6 69.9 79.6 79.9 63.1 83.7 66.3 66.5 76.1 76.3 80.9 81.3 62.9 63.0 72.6 72.7 78.5 78.7 59.3 59.3 64.7 64.7 77.2 77.2 51.7 51.7 60.5 60.5 70.2 70.2 47.6 47.6 55.8 55.8 67.1 67.1 43.3 43.3 50.8 50.8 63.8 63.8	3150	75.7	76.2	86.0	86.5	87.3	88.	88.8
69.6 69.9 79.6 79.9 63.1 83.7 66.3 66.5 76.1 76.3 60.9 81.3 62.9 63.0 72.7 78.5 78.5 59.3 68.8 68.8 75.9 75.9 55.6 55.6 64.7 64.7 73.2 73.2 47.6 47.6 55.8 55.8 67.1 67.1 43.3 43.3 50.8 50.8 63.8 63.8	0004	72.7	73.1	85.8	83.3	25.3	86.	86.5
66.3 66.5 76.1 76.3 80.9 81.3 62.9 63.0 72.6 72.7 78.5 78.7 59.3 59.3 68.8 75.9 75.9 55.6 55.6 64.7 64.7 73.2 73.2 47.6 47.6 55.8 55.8 67.1 67.1 43.3 43.3 50.8 50.8 50.8 63.8	2000	9.69	6.69	19.6	6.62	63.1	83.	84.0
59.3 59.3 68.8 75.9 75.9 59.4 59.5 64.7 64.7 73.2 73.2 51.7 51.7 60.5 60.5 70.2 70.2 47.6 47.6 55.8 50.8 67.1 67.1 43.3 43.3 50.8 50.8 63.8 63.8	6300	66.3	6.99	76.1	76.3	6.08	81.	81.4
59.3 59.3 68.8 75.9 75.9 55.6 55.6 64.7 64.7 73.2 73.2 51.7 51.7 60.5 60.5 70.2 70.2 47.6 47.6 55.8 55.8 67.1 67.1 43.3 43.3 50.8 50.8 63.8 63.8	3	2	63.0	72.6	72.7	78.5	78.	78.7
55.6 55.6 64.7 64.7 73.2 73.2 51.7 51.7 60.5 60.5 70.2 70.2 47.6 47.6 55.8 55.8 67.1 67.1 43.3 43.3 50.8 50.8 63.8 63.8	10000	59.3	59.3	6.89	68.8	75.9	75.	75.7
51.7 51.7 60.5 60.5 70.2 70.2 47.6 47.6 55.8 55.8 67.1 67.1 43.3 43.3 50.8 50.8 63.8 63.8	12500	55.6	92.6	2.49	2.49	. 73.2	73.	72.7
47.6 47.6 55.8 55.8 67.1 67.1 43.3 43.3 50.8 50.8 63.8 63.8	16000	51.7	51.7	60.5	60.9	70.2	70.	4.69
43.3 43.3 50.8 50.8 63.8 63.8	20000	47.6	47.6	55.8	55.8	67.1	67.	65.7
	25000	43.3	43.3	50.8	50.8	63.8	63.	61.7

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

DELTA N = 6.00 P. CORDS: 10ENT: 6.6-078-	250 (F-106 93 % RPM AIRSPEED = 2	APPROAC 1.7	EPR EPR				•		•	*		٠		4	•
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	GROUI	1-07	GROUND-TO-GROUND	OND	PROF	PROPAGATION	NOI													- 1	OMEGA	GA	9.9	
AIRCRAFT 8	F-106					OPERA	PERATIONS APPROACH POWER 93 % RPM	* X X	OMER	1.7	EPR	~	2000	ETEO	METEOROLOGY I TEMP REL HU	GY: PHUMI	# 0I	59	L X	1	A/C OPS PROF	0000 10000		105 105 Rt
						AI	IRSPEE	ED =	500	KNOT	210			ELTA	Z	0.	90 0				PAG	E E	3.0	
SLANT DISTANCE (FEET)	17	3	19	50	77	22	23	54	25	FREG 26	FREQUENCY 26 27 2	8	AND 29	NCM B	8ER 31	32	33	34	35	36	37	38	39	
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315	16	18	22	83	96	68			68	96	87	88		96	85	85	85	84	83		15	73	73	-
004	14	92	73	81	87	87			87	94	85	96		94	83	82	83	81	80		72	7.0	20	-
200	72	14	11	62	85	85			85	85	83	94		82	81	80	80	19	11		69	99	99	9
630	70	72	69	11	83	85			83	80	81	81		19	78	78	78	16	75		99	9	61	9
800	68	7.0	29	52	80	62			81	18	43	62		11	92	15	15	7.4	72		62	28	25	N.
1000	99	99	69	72	11	11	7.1		784	92	11	11		15	14	73	73	7.1	68	65	28	53	64	4
1250	19	99	29	69	74	73	89		75	14	75	15		72	7.1	7.0	7.0	29	65	09	24	47	42	36
1600	62	62	58	65	11	20	49		72	72	72	72		20	68	29	29	79	61	55	4 8	41	33	8
2000	66	66	25	29	29	99	09		69	69	20	7.0		29	99	9	63	60	96	20	42	33	22	
2500	25	25	20	25	62	95	96		69	99	29	29		9	62	61	29	96	51	44	35	23	6	
3150	51	20	46	25	25	21	21		60	61	49	65		61	29	25	25	51	42	36	56	12		
0004	24	45	10	47	25	51	45		25	25	99	61		28	22	53	20	45	38	27	16			
2000	41	41	36	745	11	46	0,	43	64	51	96	25	96	24	51	48	42	38	30	16	4			
6300	36	36	31	37	45	41	35		43	42	51	25		20	14	45	38	31	20	m				
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12500	30	53	54	30	35	34	27	53	34	35	04	04	37	34	27	20								
16000	28	27	22	58	35	31	54	97	30	31	36	35	31	56	19	6								
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* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

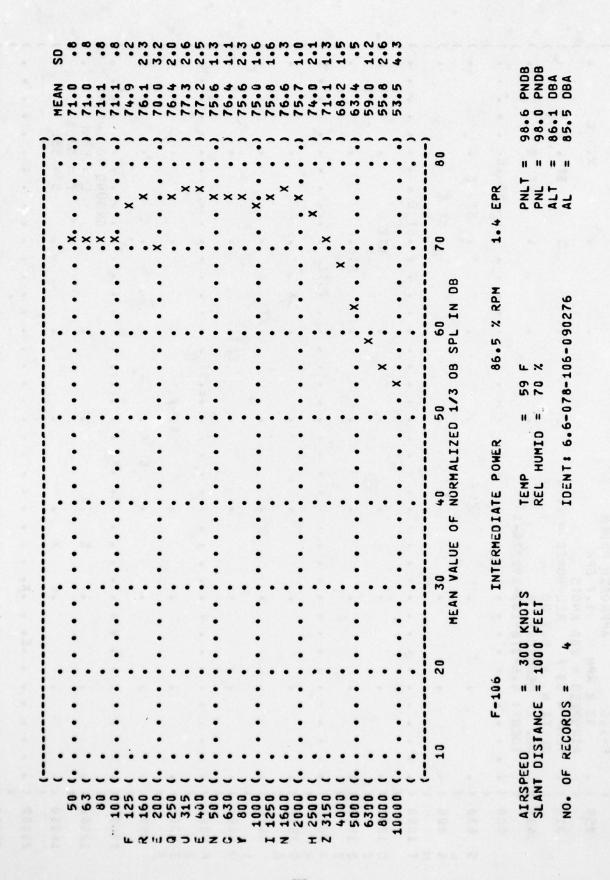
* BAND WHICH DETERMINES THE TONE CORRECTION (C).

	GROUND-TO-GROUND P	ROPAGATION				•	OMEGA 6.6
AIRCRAFT: F-106		(OPERATION: (APPROACH POWER (93 % RPM	POWER 1.7	E PR	METEOROLOGY: TEMP = REL HUMID =	59 F)	A/C CODE: 078 OPS CODE: 105 PROFILE VER: A
		. E	200	TS .			
SLANT DISTANCE	Ą	ALTOO	PNL	PNLT**	SEL	SELT**	EPNL
(FEET)	(084)	(084)	(PN08)	(PN08)	(80)		(EPNDB)
200	100.1	100.7	113.4	113.9	7.66	100.6	104.2
250	98.0	98.5	1111.1	111.7	98.5	•66	103.0
315	95.8	96.3	108.8	109.4	97.3	98.	101.7
004	93.5	94.1	106.4	107.0	96.1	97.	100.3
200	91.3	91.8	103.9	104.5	8.46	95.8	98.8
630		69.5	101.5	101.9	43.5	**	2.76
800	86.5	87.1	98.6	99.1	92.1		95.5
1000	84.0	84.6	92.6	96.2	9.06	.0	93.5
1250	81.4	82.0	95.6	93.1	0.68	.68	91.4
1600	78.7	79.3	89.5	89.8	87.3	3	89.1
2000	15.9	76.5	85.7	86.3	85.5	86.	9.98
2500	72.8	73.4	81.8	82.4	83.4	84.	83.7
3150	69.5	70.0	78.0	78.5	81.0		80.8
0007	65.8	66.2	73.5	24.0	78.3	3 79.1	77.2
2000	61.5	61.9	9.89	689	75.1		73.1
6300	57.0	57.2	63.3	63.6	71.5		9.89
8000	52.7	52.9	58.9	29.0	68.3		65.0
10000	48.2	48.2	53.9	53.9	2.49	7 64.7	8.09
12500	43.2	43.2	48.5	48.5	60.7		56.5
16000	37.7	37.7	45.2	42.2	56.3		51.1
20000	31.8	31.8	34.7	34.7	51.4		44.7
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* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

A+. 1.7 EPR (NOTS (NOTS) (NOT									•	•	٠		GROUND TO	P = PNLT * = PNL	+ = AL	
APPROACH POWER 1.7 EPR 00 KNOTS REL HUMID = 70 X 0.0 DB DS: 6 78-105-090276-A X X X X X X X X X X X X X X X X X X X			• •	•						:	10 m				•	
APPROACH POWER 1.7 EPR 00 KNOTS REL HUMID = 70 % DS: 8 78-105-090276-A X X X X X X X X X Y X X X Y X X X Y X X X X Y X X X X Y Y X X X X Y Y X X X X	•	WERE STATE OF THE	. ×	×		a	•	• •	•					•		
APPROACH POWER 1.7 EPR 0.0 KNOTS REL HUMID = 7 0.0 08 0.1 08 0.2 08 78-105-090276-A X X X X X X X X X X X X X X X X X					. A.	×	×	• •	×			•		•	A spirate and a	
4 0 .00 · · · · · · · · · · · · · · · · ·	EPR UNID = 7	6-A			•			• *		× · · · ×	•	Design or used	•	•		
	9 0	0.0					:			: : :	*	* *	· · · · ·		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

TEMP = 59 F REL HUMIO = 70 X OELTA N = 0.0 08 NO. OF RECORDS: 0 IDENT! 6.6-074-145-090276-A ST E	250 (.	AIRSP	PH =	1.7 KNOTS	£		•		×
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	AIR-	10-6	AIR-TO-GROUND	D PR	9	AGATION	-														OMEGA	9	9.
AIRCRAFT	F-106	9		1111		OPER	INTERMET	E DIATE	1.1	POWER 1.4	EPR	~	2000	ETEOR	TEOROLOGY I TEMP REL HU	_ H	" "	59 F 70 %			A/C CODE OPS CODE	CODE	1 107
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200	11	11	11	11	81	82	92		83	84	82	83	82	82		94	m		80				-
630	15	15	75	75	19	80	14		81	81	80	81	80	80		82	-		77				2
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1000	7.1	7.1	71	7.1	75	764	20	92	11		91	92	16	75	92	17	9		7.1	68			9
1250	69	69	69	69	73	14	68	14	15	75	73	14	73	73	73	4.	73	7.1	89	94	66	1 49	64
1600	19	29	19	19	7.1	72	99	72	73		7.1	72	7.1	7.0	7.1	7.1	0		49	09			ᅻ
2000	69	99	69	65	69	7.0	49	20	7.1		69	69	68	29	68	68	1		66	24			11
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2000	25	25	25	26	9	61	52	61	61		66	65	25	55	24	53	ő		35	23	12		
6300	52	25	24	24	58	66	25	58	59		96	55	53	51	20	48	2		25	11			
8000	53	25	25	25	96	26	20	96	99		25	55	64	94	45	45	9		14				
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12560	48	48	48	24	51	51	45	20	20	84	45	43	0 4	35	32	56	17	t					
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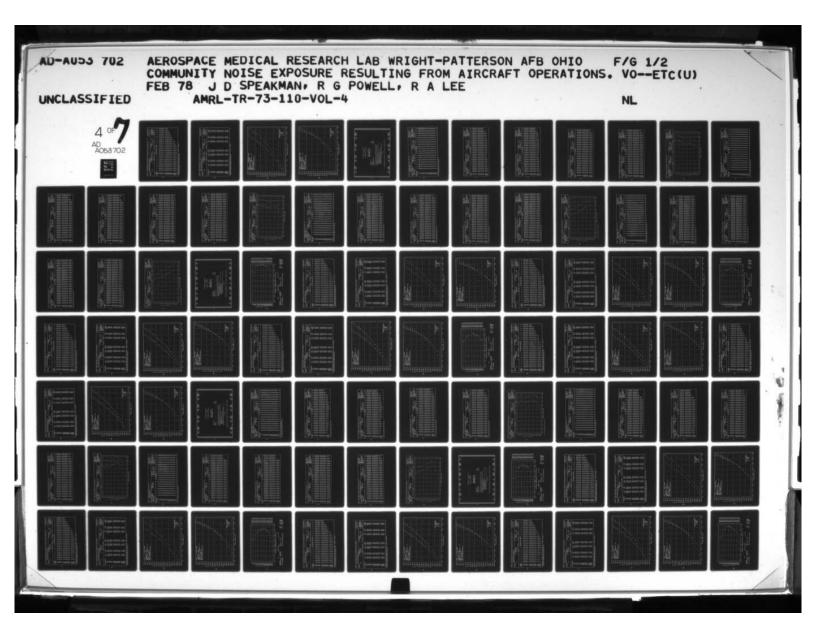
* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS! 4 SAND WHICH DETERMINES THE TONE CORRECTION (C).

AIR-T0-6	AIR-TO-GROUND PROP	AGATION					•	OMEGA 6.6
AIRCRAFT: F-106		(OPERATIONS (INTERMEDIATE (86.5 % RPM	IATE POWER	EPR	METEOROLOGY 8 TEMP REL HU	SY:	59 F)	A/C CODE: 078 OPS CODE: 106 PROFILE VER:
		(AIRSPEED	= 300 KNOTS	S	DELTA N =	0.0 08		U9 FEB 76 PAGE 14
SLANT DISTANCE	AL.	ALT**	PNE	PNLT		SEL	SELT**	EPNL **
(FEET)	(DBA)	(DBA)	CPNOB	(ANDR)		(08)	(80)	(EPNDB)
200	101.9	102.5	115.5	116.1		100.6	101.6	104.8
250	1.66	106.3	113.2	113.8		4.66	100.4	103.5
315	97.5	98.1	110.9	111.5		98.5	99.1	102.2
004	95.2	95.8	108.5	109.1		6.96	97.8	100.8
200	92.9	93.5	106.1	106.7		95.6	96.5	7. 66
920	30.0	91.1	103.5	•		2000	9201	0.76
908	88.0	98./	100.8	101.4		95.8	95.6	96.1
1000	85.5	86.1	98.0	98.6		91.2	8	94.3
1250	82.9	83.5	95.0	95.6			9006	
1600	80.2	80.8	91.9	92.5		68.0	88.9	90.2
2000	77.4	78.0	88.7	89.3		•	87.1	88.0
2500	74.5	75.1	85.3	85.9		84.2	85.2	92.6
3150	71.5	72.1	81.8	82.4		2.	83.1	83.1
9004	68.3	68.8	78.2	78.7		80.0	80.8	80.3
5000	65.0	65.4	74.8	75.2		77.7	78.3	77.77
6300	61.6	61.9	71.2	71.5		75.3	75.7	75.0
8000	58.1	58.2	67.5	9.29		72.8	73.0	72.1
10000	54.4	54.4	63.5	63.5		70.1	70.1	68.9
12500	50.5	50.5	59.5	59.5		67.3	67.3	9.59
16000	46.5	46.5	:	9446		64.2	2.49	62.0
20000	42.3	42.3	9.64	9.64		61.0	61.0	58.0
00000								

** EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

TEMP = 59 F REL HUMID = 70 X NOS. OF RECORDS: 4+ NOS. OF REL HUMID = 70 X NOS. OF RECORDS: 4+ NOS. OF RECO	2 4		Y-100		•	×	•
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POWER 70 x 8



		-	GROUND-TO-GROUND	OND	PROP	9	AGATION							2012		600) OMEGA 6.6	OMEGA	A 6.	9	
SLANT DISTANCE	F-136				2-4		ATION: NTERME 86.5 % IRSPEE	ERATION: INTERMEDIATE 86.5 % RPM AIRSPEED = 3		POWER 1.4	E R		#E1	TETEOROLOGY TEMP REL HL	OLOGY TEMP N =	Y: HUMID	" " 80	59 F		70000	A/C CODE: OPS CODE: PROFILE V 19 FEB 76 PAGE L4	CODE CODE ILE EB 7	1 107 VER:	& O 4
(FEET)	17	18	19	20	ฆ	22	23 2	2 4 2	w	FREQU 26 2	EQUENCY 27 28	7 BAN	06	NUMBER 30 3	3.5	32	83	3.5	35	36	37	99	39	9
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3150	51	5 4	42	100				6 M	+ o		100 4		20 00						37	36	800			
5000 6300 8000	37	32	32 30	35	33	31 23	25 32 34 35	333	## ## ## ## ## ## ## ## ## ## ## ## ##	39 62	100	1 2 2 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 t t t t t t t t t t t t t t t t t t t	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	644	448	336	31 22 22	20 6	9 9				
10000 12500 16400 2000 25000	3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	30 28 28 23 21	28 26 21 21 18	26 23 21 18 16	28 28 20 20 17	28 26 23 20 17	119 2 2 2 2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4	11000	228	36 332 332 32 32 32 32 32 32 32 32 32 32 3	12333	335 33 33 33 33 33 33 33 33 33 33 33 33	20 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	330 330 340 340 340 340 340 340 340 340	9 9 9 9	221 11111	122 1	21						

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4 S BAND WHICH DETERMINES THE TONE CORRECTION (C).

						•	
GROUND-TU-GROUND		PROPAGATION					OMEGA 6.6
AIRCRAFT:		(OPERATION:	TATE POWER	~	METEOROLOGY:	ď	A/C CODE: 078
704-5		100 % U 30					
001-1		7 6.000	1.4	A	EL HUMIU	2	19 FEB 76
		(AIRSPEED	= 3u0 KNOTS	(SJ	DELTA N = 0.0 08	_	1
SLANT DISTANCE	AL	AL T**	d.	PNLT*	SEL	SELTO	FPNI *
(FEET)	(08A)	(08A)	(PN08)	(PND8)	(80)		(EPNDB)
200	6.96	97.5	110.5	111.0	95.6		2.66
250	2.46	95.3	108.2	108.8	4.46	95.3	98.5
315	95.5	93.0	105.9	106.4	93.2		97.1
004	90.2	90.06	103.5	104.0	91.9		2.56
200		88.4	101.0	101.5	90.6		94.2
630		86.0	98.3	6.86	89.2		95.6
800	83.0	83.6	95.6	96.1	87.7		9.06
1000	80.5	81.0	92.7	93.2	86.2		6.88
1250	17.8	78.4	89.5	90.1	84.5		86.8
1600	75.1	75.6	86.2	86.8	82.8		84.5
2000	72.2	72.7	82.7	83.3	89.9	81.8	82.0
2500	69.0	9.69	78.8	19.4	78.8		79.1
3150	65.7	66.2	2.4.2	75.3	76.4		16.0
0004	61.9	62.4	70.1	9.02	73.6		72.2
2000	57.7	58.1	65.1	65.4			68.0
6300	53.2	53.4	59.6	59.8	9		63.3
8000	48.9	0.64	94.6	24.7	m		59.5
10000	44.2	44.2	49.3	49.3	6*65	59.	54.7
12500	39.5	39.2	43.1	43.1	55.9	55.	49.5
16000	33.8	33.8	36.0	36.0	51.5	51.5	43.4
20000	57.9	27.9	28.1	28.1	9.94	46.	36.4
2000	, ,,	2.0					

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

EDIATE POWER S HUMID = 70 % X	POWER X X X X X X X X X X X X X X X X X X X	A 70 % A A A A A A A A A A A A A A A A A A
		A + A + A + A + A + A + A + A + A + A +

TERMEDIATE POWER 1.4 EPR KNOTS REL HUMIO = 70 % 106-090276-A 1106-090276-A 1206-090276-A 1306-090276-A
X X X X X X X X X X X X X X X X X X X

OHUPAZOM HZ FMMH

AIRCRAFT AIRCRAFT												AIRCRAFT
F-106 F-106						295 301 307 313					> 0 & H	F-106 F-106
					PAGE	. 290-295 . 296-301 . 302-307 . 308-313		URCE	IRCE		E & A T	
AIRCRAFT AIRCRAFT		₩.		SNO	8		E PROVIDED:	EQUENCY NCE FROM SC	EL SOUND LEVEL 250 FEET FROM SOURCE		E E E E E E E E E E E E E E E E E E E	AIRCRAFT
F-106		PRODUCED ON THE GROUND	AIRCRAFT	DURING GROUND RUN-JP OPERATIONS	TEST 76-578-001 ARCRAFT CODE: 578 PROFILE VERSION: A COMPUTER PROGRAM OMEGA 8.		THE FOLLOWING DATA ARE PROVIDED:	MALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY NORMALIZED SPL AT 250 FEET SE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE PROFIUED NOTES IF THE		20 APR 76	A I R I R I R I R I R I R I R I R I R I	F-106
AIRCRAFT AIRCRAFT		NOISE PRODUCE	F-106	DURING GROUND	TEST 76- AIRCRAFT CODE: PROFILE VERSIO COMPUTER PROGRAM	RPM		ALIZED DATA AS A FUNCTION NORMALIZED SPL AT 250 FEET E LEVELS AS A FUNCTION OF	TONE-CORE NOISE LEVEL A-WEIGHTED OVERALL SOUND LEVEL TONE-CORRECTED, A-WEIGHTED OVERALL SO E LEVELS AS A FUNCTION OF ANGLE AT 25	21	E R S O A P L	AIRCRAFT
1111					POWER SETTING	85% RPM	FOR EACH POWER SETTING,	NORMALIZED DATA AS A FUNC' NORMALIZED SPL AT 250 NOISE LEVELS AS A FUNCTION PERDETURE AND TET TETET	TONE-CORRECTE A-WEIGHTED OV TONE-CORRECTE NOISE LEVELS AS A		0 H T P C P II P C P	F-166 F-106
EE					Ä	A M A	H	N	N		W H W W	==
AIRCRAFT												AIRCRAFT
F-106												F-106

	1/3 OCTAVE DISTANCE =		BAND 250	FEET	3504E	רבילני	(n)	3									DENITE ONEGA TEST 7	-01	8-001	
NOISE SOURCE/SUBJECT F-106 AIRCRAFT ENG. J75-P-17 GROUND RUNUP	SOURCE/SUBJECT 6 AIRCRAFT J75-P-17 ND RUNUP	RAFT			OPER SI	RATIONS OLE, 68 INGLE E	N8 68% RPM ENGINE -105 +0		-106 DB			TEOROLOGY: TEMP BAR PRESS REL HUMID	1 11 11	59.92 70 70	IN X		AIRCRAFT OPERATION PROFILE V 20 APR 76		CODE CODE	576 0101
BAND CENTER FREQ (HZ)	۳.		10	20	36	3	20	9	A D L	ANGLE 80	CDEGRE 90	EES)	110	120	130	140	150	160	170	180
96	•	654	>69	62	63	65	99	63	99	67	9	99	67	67	5	89	67	99	99	99
63				959	999	69	29	999	9	99	29	99	>69	69	67	29	99	999	634	62
	•		69	29	69	20	69	68	68	69	7.0	20	20	72	72	7.1	69	29	634	61
100	•			68	10	11	72	69	69	11	72	72	72	73	73	72	7.1	69	624	59
125	•			20	11	11	10	68	72	73	14	12	75	22	92	73	73	20	62	20
160				73	14	42	73	73	14	25	92	22	11	11	11	73	17	89	61	26
200		9 9	69	2.5	0 4	25	0.2	29	89	89 4	7.1	73	75	92	77	0 2	89	62	209	554
315	, '			73	8 9	800	22	70	12	2 2	73	12	22	11	28	22	200	249	26	525
400	-			73	71	12	73	72	7.1	72	72	73	75	22	16	69	99	63	25	20
500	1			73	14	16	7.0	69	99	20	7.1	72	7.1	12	72	29	63	62	58	64
630	-			72	73	72	73	20	69	20	68	2.0	69	74	7.1	69	63	63	28	47
800	-	7.7		7.1	69	72	7.0	69	69	68	99	69	99	99	29	63	95	62	96	45
1000	-			68	72	73	72	89	49	29	49	9	99	68	68	69	65	69	66	40
1250	-		80	15	15	62	10	92	14	69	7.1	71	69	11	14	7.1	11	7.0	29	26
1600	40			95	83	92	62	15	8.2	20	75	15	1.4	7.1	73	72	71	20	99	26
2000	•		83	82	80	11	11	42	72	20	72	7.1	20	69	20	99	29	29	29	53
2500	90			81	81	80	62	72	69	69	68	72	69	69	69	99	69	99	9	51
3150	7		82	42	92	19	16	69	29	69	29	7.1	7.1	20	69	69	19	63	28	49
4000	1		81	92	22	8:0	92	7.1	20	69	69	72	72	14	74	68	29	49	9	20
5000	-			92	14	14	72	99	69	40	69	69	29	69	69	49	62	9	52	47
6300	1			71	20	72	72	69	49	49	49	29	29	29	6.8	62	61	29	53	45
8000	1		69	69	89	20	99	62	63	62	19	29	29	68	69	63	9	21	51	43
10300	9			*9	63	† 9	63	28	9	23	09	69	• •	99	99	61	25	24	47	3
							9								1					

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

		FUNCTIO	AS A FUNCTION OF ANGLE		AND DISTANCE	STANCE	FRC :	SOURCE) OMEGA 8.2	OMEGA 8.2 TEST 76-578-001	8-001	
NOISE SOURCE/SUBJECT: F-106 AIRCRAFT ENG. J75-P-17 GROUND RUNUP	E SOURCE/SUBJECT F-106 AIRCRA ENG. J75-P-17 GROUND RUNUP	UBJECT AIRCRAI			OPER	OPERATIONS IDLE, 6 SINGLE EST. F-	ATION: IJLE, 68% RPH F-1 Single engine EST, F-105 +0.008	08			METEOROLOGY: TEMP BAR PRES REL HUNI	. 00	= 59 = 29.92 = 70	9 F H G N H G		PROFE	AIRCRATI CODE AIRCRATION CODE PROFILE VERSION 20 APR 76 PAGE D1		578 01013
DISTANCE	9	10	50	30	0.4	50	9	0,	ANGLE 80		(DEGREES)	110	120	130	140	150	160	170	180
200	105.0	105.9	104.6	164.2	104.4	103.1	97.8	98.1	9.96	4.16	99.3	99.1	100.3	100.3	95.5	93.9	92.4	87.7	78.5
250	102.8				102.0	100.9	95.5	95.9	94.3	95.1	96.9	96.8		98.0	93.2	91.6	90.1	85.4	76.2
315	100.5	-		98.6	966	98.5	93.2	93.6	91.9	95.8	94.5	94.4	92.6	92.6	90.8	89.2	87.8	63.1	73.9
9 0	98.1				1.76	90.1	70.0	51.0	9.00	6.0	30.0	91.9	133.1	93.1	86.3	900	62.0	780.7	200
630	93.1	93.8	92.7		91.8		85.7	86.3	84.1	85.5	86.7	86.4	87.6	87.6	83.0	81.6	80.4	75.7	66.4
800	90.4			89.4	89.1		83.0	83.6	81.3	85.8	83.9	83.4	84.6	84.5	80.3	78.9	17.8	73.1	63.5
40.00	47.6		27.7	46.4	4 4		0	0 0	7 8 7		0	20.2	41.4	41.4	77.6	76.0	24.0	20.2	50.5
1250	84.5				82.9		77.2	27.9	75.1	77.0	77.8	77.3	27.9	78.0	74.47	73.0	21.9	67.2	57.3
1600	81.3	82.3	81.1		79.5	78.8	73.9	74.8	71.8	73.8	74.6	74.0	74.2	74.5	71.2	69.8	68.7	63.9	53.8
2000	77.9				75.8		70.5	71.3	68.2	4.07	71.1	70.4	7.07	71.1	1.19	2.99	65.2	4.09	49.6
2500	74.2		74.1		711.7		2.99	9.79	64.2	9.99	67.3	9 • 99	9.99	67.1	63.8	62.3	61.3	56.5	44.6
3150	70.2		70.0		67.0		02.5	63.5	6.65	62.4	63.0	62,3	9.29	62.7	29.5	58.0	57.0	52.0	38.9
0005	1.59		65.5		61.3		57.9	58.9	55.1	57.7	58.3	57.5	58.0	58.0	24.6	53.1	2.29	47.1	32.5
2000	9.09	61.	69.5	58.3	50.5	56.5	52.7	53.6	+ 64	55.4	55.9	52.1	25.8	55.6	7.64	47.1	7.94	40.7	22.3
6300	55.0		24.7		50.9		47.0	47.9	42.7	46.0	40.4	45.7	6.94	46.5	45.1	9.04	39.6	34.0	11.5
8110	48.9		48.6	4.7.4	1.44		40.8	6.04	37.3	38.9	39.3	38.5	41.6	4.0.4	35.5	33.9	32.8	52.6	
10000	41.0	42.1	40.0	39.1	38.5	36.1	33.2	32.2	30.5	31.9	33.0	32,3	35.4	34.1	26.4	25.2	22.9	10.3	
12500	33.2				31.8		21.7	19.5	21.7	21.9	24.3	23.5	28.5	27.0	15.3	16.5	13.0		
16300	23.2	22.7		17.8	23.1	16.1	10.2	6.8	11.4	12.2	15.5	13.8	19.9	16.9	4.2	7.7	3.2		
20000	12.3		6.3	7.4	11.4				1.1	5.4	2.9	4.0	7.9	6.9					
25000	1.4																		

		1	AS A FUNCTION OF I	ANGLE A	AND DIS	DISTANCE	FROM S	SOURCE								TEST 7	1 76-57	8-001	
NOISE SO F-10 ENG. GROU	ISE SOURCE/SUBJECT: F-106 AIRCRAFT ENG. J75-P-17 GRJUND RUNUP	AIRCRAI	_=		OPERATIONS IDLE, SINGLE	ATION: IDLE, 6 SINGLE EST. F-	1 0 5 1 1 0 5 1 1 0 5 1	RPH F-106 INE +0.008		2000	METEOROLOGYS TEMP BAR PRES REL HUMI	PRESS HUMID	= 59 = 29.92 = 70	LÄX	ā	A IR	RUN 01 AIRCRAFT CODE 5 APERATION CODE 0 PROFILE VERSION 20 APR 76 PAGE E1	T CODE 9 ON CODE (VERSION 76	578 01013
DISTANCE (FEET)	3	9	20	30	9	50	0.9	2	ANGLE	1	(DEGREES) 90 100	110	120	130	140	150	160	170	180
200	106.3		106.6	106.1		104.2		100.0	97.3	7.86	1.00.1	100.5	101.9	101.9	1.96	95.2		88.8	78.5
250	104.0	105.4	104.4			101.9		97.8	95.0	96.5	4.96	98.2	9.66	9.66	4.46	92.9		86.5	76.2
400	99.4	103.6	196.1	99.1	10101	93.6	92.1	93.2	90.1	91.8	93.5	93.3	2.76	2.76	89.5	88.0	85.5	84.2	71.5
5.00	6.96				95.9	1.46		2.06	87.6	89.4	90.8	90.6	92.0	92.0	86.8	85.5		79.4	69.8
630	4.46		1.46		93.3	92.1		88.2	84.9	86.8	88.1	87.8	89.2	89.5	84.2	82.9		6.92	66.4
900	91.7		95.0	91.2	90.5	89.3		85.5	82.0	84.1	85.3	84.8	86.2	86.2	81.5	80.2		74.2	63.5
4000	4	2 00	0 0	4	27.5	7 30	4	9 00	70	2 . 4		7 10	0 2 0	0 2 0	7 0 7	***	71. 0		
1250	85.8				84.4	83.2	78.5	79.8	75.8	78.3	79.3	78.6	79.5	79.5	75.6	74.3	71.0	68.4	57.3
1500	82.6			82.0		79.8	75.2	76.7	72.5	75.1	76.0	75.4	75.7	76.1	72.4	71.1	68.7	65.0	53.6
2000	79.1					76.1	71.8	73.2	6.89	71.7	72.5	71.8	72.3	72.7	68.8	67.5	65.2	61.5	49.6
2500	75.4					72.0	68.0	69.5	6.49	6.79	68.7	68.0	68.2	68.6	6.49	63.6	61.3	57.6	44.6
3150	71.4		72.0			4.19	63.8	4.59	9.09	63.7	4.49	63.6	64.2	64.3	2.09	59.3	57.0	53.2	38.9
4000	1000					65.5	58.9	4.09	22.5	58.7	29.4	58.6	59.3	59.5	52.5	54.1	55.2	48.0	32.5
2000	61.4	62.6				57.1	53.4	54.8	49.8	53.2	53.8	53.0	53.8	53.6	6.64	47.9	46.2	41.4	22.3
6300	55.5					51.0	47.5	48.6	45.9	46.5	47.0	46.2	47.5	47.3	45.5	41.1	39.6	34.4	11.5
8000	49.5	50.5	49.0			43.9	41.1	41.2	37.5	39.1	39.6	38.7	41.9	40.7	35.4	34.1	32.8	52.9	•
10000	41.0	42.1	40.8	39.1	38.5	36.1	33.2	32.2	30.5	31.9	33.0	32.3	35.4	34.1	26.4	25.2	22.9	10.3	
12500	33.2					28.3	21.7	19.5	21.7	21.9	24.3	23.5	28.5	27.0	15.3	16.5	13.0		
16000	23.2			17.8	23.1	16.1	10.2	6.8	11.4	12.2	15.5	13.8	19.9	16.9	4.2	7.7	3.2		
20000	12.3	10.6	6.3			4.0			1.1	2.4	6.7	4.0	7.9	6.9					

NOISE SOURCE/SUBJECT: F-106 AIRCRAFT ENG. J75-P-17 GROUND RUNUP OISTANCE (FEET) 0 10 200 92.8 93.5 250 90.6 91.3 315 88.3 89.1 400 43.7 84.4 500 83.6 78.8 1300 76.2 76.8 1250 78.8 79.4	20 20 20 20 20 20 20 20 20 20 20 20 20 2	30 891.2 865.3 86.3 87.1	0 PERAT	FATION: 10/E: 50/E: 50/E	TWO NOSONS	F-146 70 70 70 70 70 70 70 70 70 70	ANGLE ANGLE 800.2 77.9	2000 0000	AETEOROLOGY: TEMP PRES BAR PRES REL HUMI DELTA N = 100 110 110 110 110 110 110 110 110 1	1110 1110 1110 1110 1110 1110 1110 111	1	N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HG 140 140 779.1	A PROPERTY OF THE PAGE TO THE	ALRCRAFT ALRCRAFT PROFILE VE 20 APR 76 PAGE F1 50 160 3 79.4 51 77.3 5.9 75.1	CODE 5 CODE 0 RSION 170 170 770.8 68.5 68.5	180 180 180 65.1 56.2 56.2
7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		991 30 8691 30 861 5	40 90 90 90 90 90 90 90 90 90 90 90 90 90		200000	90111	3 4 6 CE		100 100 84.9 82.7 80.5 78.1	1110 84.2 82.0 79.7 77.4	120 85.0 80.5 78.2	130 85.3 83.1 78.5	140 81.3 79.1 74.6		160 77.3 75.1 72.8	170 75.1 73.0 70.8 68.5 66.2	180 65.1 662.9 60.7 58.5
7 7 7 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9		866.8 866.8 879.1	888.2 88.2 85.9 81.1 78.6		200000		****	83.7	84.9 82.7 80.5 78.1	84.2 82.0 77.4 75.0	85.0 82.8 78.2 75.8	83.1	81.3 79.1 76.8 74.6		79.4 77.3 75.1 72.8	75.1 73.0 70.8 66.2 66.2	65.1 62.9 60.7 58.5
7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		86.00	88.2 85.9 81.1 78.6		90900		N 0 N M	81.5 77.1	82.7 80.5 78.1 75.8	79.7 77.4 75.0	82.8 80.5 78.2 75.8	83.1 80.8 78.5	79.1	80.3	77.3	73.0 70.8 68.5 66.2	62.9 60.7 58.5 56.2
76.2		84.5	78.0		900		~ M	77.1	78.1	77.4	78.2	78.5	74.6	78.1	72.8	68.5	58.5
781.7		79.7	81.1 78.6 76.0		26		2	7 .7	75.8	75.0	75.8			73.6	70.5	66.2	56.2
7 6.2 73.4 73.4		79.7	78.6		6					72.6	1	76.2	7.7	71.3	1	63.9	
73.4			0 -07				6	75.4	73.3	0.01	73.4	73.7	8.69	68.9	68.1		53.8
73.4		1.			*		t	6.69	20.8	70.0	70.9	71.5	67.3	7.99	2.59	61.4	51.3
73.4		74.5	73.3		•	9		4.19	68.2	67.4	68.3	68.7	8.49	63.9	63.1	58.9	48.7
79.5	1 72.8	711.7	4.07		~	6		2.49	4.59	2.49	9.59	0.99	62.1	61.2	60.5	56.3	46.1
		68.8	4.29			-		6119	9.29	6119	65.9	63.2	59.3	58.4	57.7	53.5	43.2
4.29		65.7	64.3			2		29.0	9.69	58.9	60.0	60.2	56.3	52.5	24.7	50.6	40.2
64.1		62.3	6009	60.1	57.3 5		24.4	22.5	56.4	99.6	50.9	57.0	53.1	52.3	51.6	4.7.4	37.0
69.4			57.3		•			55.2	52.8		53.5	53.5	9.64	48.9	48.2	44.0	33.5
	9.55	24.6	53.4		_	Q		48.3	0.64	48.0	9.64	9.64	45.8	45.1	44.4	40.3	29.7
51.9			49.5		•	2		43.9	44.7		42.4	45.3	41.6	41.0	40°3	36.2	25.5
46.9	1.94	45.1	44.5		_	*		39.5	0.04			40.7	37.0	36.4	35.8	31.6	20.8
8000 +1.7 42.1		0.04	40.0			4		34.6	35.6		37.0	36.5	32.4	31.6	31.0	26.7	16.0
10000 36.2 30.4	34.9	34.5	35.1				80	8.62	31.0	30.3	32.8	32.0	27.5	26.4	25.8	21.3	10.8
33.5			29.9					24.8	26.1	25.6	28.4	27.3	22.4	20.8	20.2	15.5	5.3
24.7		23.0	24.4	22.4	20.0 1	18.7 2	20.0	19.6	21.0	20.8	23.5	22.3	17.1	15.0	14.2	9.3	
18.0	17.0		18.6				2	14.3	15.6	15.7	18.3	17.2	11.7	9.1	8.1	3.0	
12.6			12.4				9	8.7	6.6	10.2	12.6	11.7	6.1	3.3	2.0		

				-		-	-		-	-	-	-	-	-	-				-	-	-	-
	578 01013	180	65.1	60.7	56.2	53.8	51.3	48.7	46.1	43.2	40.2	37.0	33.5	29.1	55.5	20.8	0.01	10.	5.3			
FION:	CODE	170	76.3	71.9	67.6	65.0	62.6	6.03	57.4	54.6	51.7	48.6	45.2	41.2	36.8	32.0		21.3	15.5	9.3	3.0	
DENTIFICATIONS OMEGA 8.2 TEST 76-578-00	AIRCRAFT OPERATION PROFILE VE 20 APR 76 PAGE 61	160	79.4	75.1	70.5	68.1	65.7	67.1	60.5	57.7	24.7	51.6	48.2	44.4	40.3	35.6		25.8	2002	14.2	8.1	2.0
OMEGA TEST	PROFER PAGE	150	81.6	2.77	72.6	70.2	67.8	66.2		59.7	56.8	53.6	20.5	46.2	41.8	36.9			8			2
		146	82.5	78.0	73.4	71.0	68.5	66.0	63.3	60.5	51.5	54.3	9.09	46.8	45.3	37.5	0.30			_	11.7	_
	FIX N H	130	86.9		77.7	. m				2.49									2	2	17.2	1
	= 59.92 =29.92 = 70 1 08	120		82.1					. ~		9	+		6	m 1	•	,			5	18.3	9
	No.	110	83.4 8	-	t o		*	4	, ,	63.2	2		,	-	5	39.5	,	2	9	8		2
	E A E E	!	+ ^				۸,									40.0			_			6
	#ET	(DEGZEES) 90 100	85.0 8	.0.	• -	2	~			63.2 6											14.3 1	
a		ANGLE	47		+ -	9	-		6		3	7	2	2	t	36.7 3		80	+	0		9
IL (DBA)	F-106 008	0 2		82.4 7						65.0 6											12.9 1/	
ID LEVEL			86.5 86							54.7 6											14.1 12	
CE FROM	N: 68% RPM LE ENGINE F-105 +0.	9 09	90.4 86					15	0			~	.0			T 0	,				16.3 14	
DISTANCE	ERATIONS IDLE, 6 SINGLE EST. F-									.8 67.												
AND	O O O O O O O O O O O O O O O O O O O	9	9 89.7							7 68.8											1 18.6	
A-WEIGH ANGLE		96	2 93.1							8 70.7											0 17.1	
CTED, ION OF	T & AFT	2	4 94.2				3 89.2	6 77.5		9 71.8						2 40.0					4 17.0	
TONE-CORRECTED, A-WEIG AS A FUNCTION OF ANGLE	SUBJEC AIRCR P-17 NUP	3	0 95.4							8 72.9						2000					8 18.4	
TONE AS A	E SOURCE/SUB F-106 AI ENG. J75-P-1 GRUUND RUNUP	9	94.0	9.68	95.	82.	83.	77.4	7 ** 7	71.8	68.	65.	61.	57.	25	12.0		36.2	30.	54.	18.8	12.
TABLEI	NOISE SOURCE/SUBJECT: F-106 AIRCRAFT ENG. J75-P-17 GRJUND RUNUP	DISTANCE	250	315	200	630	800	1380	1250	1600	2000	2500	3150	2004	2000	900		10000	12500	16000	20002	25300
						_			_	_	_	_	_	_				_	_	_	_	_

0	DISTANCE = 250	. FEET									18-001
NOISE SOUR	SUBJECT: AIRCRAFT P-17 NUP		OPERATIONS (IDLE, SINGLE (EST, F	(ATION: IDLE, 68% RPH F-1 SINGLE ENGINE EST. F-1U5 +0.008	F-106	HET	EOROLOGY: TEMP BAR PRESS REL HUMID	= 59 F =29.92 IN HG = 70 %		ARCRATT CODE 5 OPERATION CODE 0 PROFILE VERSION 20 APR 76 PAGE J1	CODE 578 CODE 01013 ERSION A
			P=PNLT			4=AL		T=AL	1		
3									AT		
10			•			•			. A .		•
20				• •	• •	•	••	•	. ¥	•	•••
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0 9							•	AT		d.	
L E 70	•••										•
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9.0								AT	•		
E 100	•••							. AT			•
R 110	••	• •				•	•	. AT	•		•
E 120		•					•	AT			•
130	•••							 F A		٠.	•
140	• • • • • • • • • • • • • • • • • • • •				1910	•		AT.		STATE OF STA	•
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		SAND	BAND 256 FEFT	1							-				OMEGA	FICAT	ICATIONS 8.2	
		, ;				-	-							-	NIN	0.0	0	
(NOISE SOURCE	SOURCE/SUBJECT:	-		OPERA	RATIONS	UNUP.	85%	N N N		METEOR(ROLOGY	. "	σ		AIRCRAFT	RAFT	CODE	578
(ENG. J75-	P-17		-	SIN	GLE E	ENGINE	F-1	90	-	, 9	PRES	=29.9	Z IN	HG .	PROF	ILE VE	RSION	D
(GROUND RUI	NUP		~	EST	. F-1	-	.008		-	~	HUMID	- 7		•	20 AF			
			-						^	_	" Z	.10	8		PAGE	C2		
AND CENT								ANGL	0 3	GREE								
(FREQ (HZ)	0	10	20	30	0+	20 (19	02		7	00 11	110 120	130	140	150	160	170	180
05)	7.1	7.1	72			9	92	2						6		89	81	86
63	1.4	4.2	92			2	11	6			2			2		88	92	8
	75	92	16	11	8	62	62	80	82 6	82 8	83 8	86 88	92	26	46	98	73	82
100	78	80				1	81	2			9			6		86	16	81
(125	80	80	82			2	53	+			6			σ		83	73	2
160	81	82				m	85	2			0			σ		80	7.0	75
(200	80	80	82			2	82	+			8			6		74	62	7
(550	80	80				2	81	2			1			6		7.1	61	9
315	62	62				2	83	~			6			6		72	9	9
904	81	83	96			2	28	2			0			6		7.1	29	9
005	80	82				+	87	2			0			80		68	25	9
630	92	11	62			0	83	2			2			80		69	28	99
008	7.4	82	62			0	93	2			9			80		49	24	57
1000	68	7.1	73			2	92	3			6			1		63	51	28
1250	7.1	69	20			3	73	-			9			7		9	20	53
1600	86	82	82			0	8 2	7			0			7		63	53	6
0002	7.0	91	91			0	94	m			2			7		69	28	56
(2500	85	88	86			t	83	6			2			7		29	24	55
(3156	62	80				80	62	2			6			9		62	20	20
0004	87	95	81			1	83	2			0			7		29	54	2
6 5000	62	80				8	82	+			8			9		61	20	5
(6300	62	11				2	11	8			6			9		58	84	20
30	18	92				*	92	2			9			9		28	48	64
10000		11				6	7.1	80			2			9		24	45	4
(OVERALL	26	96	96	96	96	96	96	96	, ,	26	6 66	101	103	106	104	76	48	0

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

NOISE SOURCE/SUBJECT: F-106 AIRCRAFT ENG. J75-P-17 GROUND RUNUP DISTANGE	SCE/SU			ANGLE	AND DIS	DISTANCE	FROM S	SOURCE								TES	1 76-5	78-001	
DISTANCE	175-P-	IBJECT IRCRAI	• E		OPERA	RATIONS ENGINE SINGLE EST. F-	RUNUP, ENGINE,	85% F-1	RPH 06	2222	METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	PRESS HUMID	= 29. = 29.	59 F 92 IN H 70 %	£	PAGE	RUN 02 ARCRATIC CODE OPERATION CODE PROFILE VERSION 20 APR 76 PAGE 02	CODE	578 01018 A
	0	9	20	30	3	50	0.9	0.2	ANGL:		(DEGREES) 90 100	110	120	130	140	150	160	170	180
250 1	113.1	111.5	111.5	112.0	111.8	111.	109.7	107.3		108.9	110.8	110.0	110.7	110.3	110.3	106.1	97.3	85.9	91.4
	108.6			107.	107.3			162.9		104.3	-		106.3	106.1	106.1	102.0	92.9	81.1	86.8
200	103.8		4 11	102	102.6	101		98.1	-	99.5			101.7	101.6	101.6	97.6	88.2	76.0	81.8
	98.6	99.7	99.9	96.	97.3	96		95.6		94.5			99.3	99.5	99.5	95.4	85.6	73.4	79.3
10.00	95.8	94.2	4.46	9.3	94.5	93.7	91.5	9.0.1	90.9	91.3	93.3	93.0	94.2	94.2	97.9	90.0	79.6	67.4	7.2.2
	92.7	91.2		90.	91.5	90.7	88.5	87.1	87.9	88.2	90.4	90.2	91.4	91.4	6.06		76.2	64.2	6.69
	89.5	87.9		86.	88.3	87.5	85.2	83.9	84.9	85.0	87.4	87.2	88.4	88.5	87.9	83.3	72.9	60.8	66.3
	86.0	4 . 4	84.7	83.1	9 0	84.1	81.7	80.7	79.7	81.9	84.0	84.1	85.3	85.4	84.7	79.2	69.2	56.7	62.5
3150	77.8	76.3	76.6	7.	76.7	76.0	73.8	72.9	73.9	74.3	76.5	76.4	77.9	77.2	76.3	4.69	60.4	46.4	53.7
	73.0	71.5	71.8	69	71.9	71.1	69.5	68.3	4.69	69.8	72.0	71.9	73.4	72.7	71.7	63.9	54.8	39.3	48.2
	67.7	66.1		04.	9.99	65.8	64.3	63.3	64.5	6.49	67.1	67.1	68.6	68.0	66.8	58.7	48.5	31.3	45.0
6300	61.6	60.1	60.5	500	61.6	59.9	59.1	58.5	59.3	59.6	61.9	62.0	63.5	63.0	61.7	53.0	41.6	21.5	33.3
	20.0	0000		.76	***	0000	0 ** 0	24.0	22.0	22.0	6.10	51.9	23.0		0.16		22.3	16.3	0.12
10000	47.3	46.1		46.	49.3	47.	50.1	49.5		51.1	53.4	53.6	55.3	54.5	53.7	43.9	28.0	3.1	19.7
12500	37.3	39.5	41.3	39.9	43.5	41.8	1.44	44.1	42.4	45.9	48.6	48.7	20.6	20.0	49.1	38.5	18.6		11.0
16000	30.5	32.2		32,	36.5	34.	38.3	37.7		40.3	45.7	43.6	45.1	44.2	43.6	35.4	9.3		2.3
20000	20.3	24.7		25.	58.5	27.	31.9	31.2		33.2	35.9	36.7	38.7	37.7	37.5	55.2			
25000	1.4	13.8	16.4	13.	19.6	16.	23.0	21.5		24.7	27.9	28.1	30.6	59.8	59.4	15.1			

	AS A	A FUNCTION	N 0F	ANGLE !	AND UIS	DISTANCE	FROM S	SOURCE) OMEGA	54 8.2 T 76-57	8-001	
NOISE SOU	URCE/SI J75-P	FE SOURCE/SUBJECT: FE 106 AIRCRAFT ENG. J75-P-17 GROUND RUNUP	- 1-		O PER	RATIONS ENGINE SINGLE EST. F.	E RUNUP, 85% R E ENGINE, F-10 F-105 +0,008	85% R F-10	A 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2222	METEDROLOGY B TEMP BAR PRES REL HUMI DELTA N =	PRESS HUMID	=29.	59 F 92 IN HG 70 %	₁₉	P A G	KUN 02 ARCRATI CODE 5 OPERATION CODE 0 PROFILE VERSION 20 APR 76 PAGE E2	C00E (C00E (C00E)	578 01018
DISTANCE (FEET)	9	10	29	30	9	20	09	2	ANGL	•	(DEGREES) 90 100	110	120	130	140	150	160	170	180
200	116.3			114.	114.2		111.4		109.5	108.9			~	_		108.1	0.66	87.3	93.4
250	114.1	111.7	112.1	111.8	112.0	111.3	109.0	106.7	107.2	106.6	109.6	107.7	108.5	109.6	109.5	106.1	96.9	84.9	91.2
004	109.5	107.0	107.5	100	197.4		104.2		102.6	102.0						101.8	92.3	80.0	86.4
500	107.0	104.6	105.1	104.	104.9		101.6		1001	99.5			~	_		9.66	90.0	77.4	63.
630	104.5	-	102.5	101	102.4		98.8		97.5	97.0		98.2	~	•		97.3	87.3	14.8	81.3
900	101.8	4.66	99.9	98.4	1.66	99.0			94.8	34.5		95.7	96.8	98.5		8 . 46	84.5	71.9	78.
1000	98.9		97.1	95.	96.9			91.7	92.0	91.3	34.4	93.0	94.2	95.5	95.2	92.0	81.4	68.8	75.4
1250	95.9		94.1	95.	93.9			88.7	69.9	88.2	91.4	90.5	91.4	95.8	92.2	88.9	78.0	9.59	72.1
1600	92.7			88.	93.6			85.4	85.9	85.0	88.4	87.2	88.4	89.9	89.3	85.3	14.6	62.2	68.
2000	83.2			85.	87.2			82.3	85.8	81.9	85.3	84.1	85.3	86.8	86.0	81.2	71.0	58.1	9.49
2500	85.3				83,3	82.7	19.5	78.5	79.0	78.4	81.6	80.5	81.9	83.0	82.1	9.92	86.8	53.4	60.4
3150	81.0		7.9	76.	79.1			4.42	75.6	74.3	77.5	16.4	77.9	78.7	77.7	71.4	62.2	47.8	55.6
4000	75.6			71.	73.8			9.69	70.2	8.69	72.8	71.9	73.4	73.9	72.8	65.4	2.95	40.4	49.
5000	9.69	67.5	69.1	65.	68.0			64.3	65.1	6.49	67.7	67.1	68.6	68.8	67.7	59.9	9.64	32.2	43.
6300	65.9	61.0	61.5	59.	61.5			58.8	2.65	9.69	02.4	62.0	63.5	63.5	62.2	53.8	42.3	22.1	34.1
8000	55.6	54.1	24.8	52.	54.8			54.3	55.3	9.55	50.1	57.9	9.69	2.69	58.1	49.1	36.3	15.6	28.2
10000	47.3	46.1	47.8	46.	49.3			49.5	50.0	51.1	53.4	53.6	55.3	54.5	53.7	43.9	28.0	3.1	19.7
12500	37.3			39.	43.2			44.1	45.4	45.9	48.6	48.7	50.6	50.0	49.1	38.5	18.6		11.0
16000	30.2			32.8	30.5	34.6	38.3	37.7	39.5	40.3	42.7	43.0	45.1	44.2	43.6	32.4	9.3		2.3
20300	20.3		27.4	25.	29.5			31.2	32.3	33.2	35.9	30.7	38.7	37.7	37.5	22.5			
25000	7 1							1					1						

SOURCE/SUBJECTI (OPERATION!		AS A B	AS A FUNCTION OF ANGLE	4 OF A		9	FANGE	FROM SO	SOURCE								OMEGA	- 17 -	A 8.2 76-578-001	
STANCE 10 20 30 40 50 60 70 80 60 10 110 120 130 140 150 160 170 180	010	OURCE/SI 06 J75-P.	UBJECT I			E S E A	•	RUNUP, ENGINE,	85% R F-101	I g	20020	ETEORO TEM BAR BAR ELTA N	PRESS HUMIO		L H X	و	A AIR	CRAFT RATION FILE VI	CODE CODE ERSION	DE 578)
99.7 97.9 97.5 97.2 97.2 97.7 96.6 95.3 93.5 94.6 94.7 96.8 96.4 97.5 97.2 95.8 89.5 80.8 69.7 67.6 95.5 95.2 95.4 95.7 97.5 97.5 95.4 95.7 97.5 97.5 95.8 95.6 95.4 95.7 97.5 95.8 95.8 95.8 95.8 95.8 95.8 95.8 95	DISTANCE (FEET)		10	20	30	0,	5.0	0.9	3.6	ANGL		REES)	110	120	130	140	150	160	170	180
97.5 95.7 95.4 94.9 95.5 94.4 93.1 91.3 92.4 92.6 94.7 94.3 95.4 95.1 93.7 87.5 78.7 67.6 95.9 95.2 93.4 93.1 91.2 92.2 93.3 91.1 92.0 93.2 93.2 93.2 93.2 93.2 93.2 93.2 93.2	200	99.7		97.5	97.2	1.16	9.96	95.3	93.5	94.6	7.46	96.8	96.4	97.5	97.2	95.8	89.5	80.8	69.7	74.7
93.2 93.4 93.1 93.2 93.2 92.2 93.2 93.2 93.2 93.2 93.6 93.7 93.7 93.7 93.7 93.7 93.7 93.7 93.7	250	97.5		95.4	6.46	95.5	4.46	93.1	91.3	95.4	95.6	34.7	94.3	95.4	95.1	93.7	87.5	78.7	9.19	72.6
90.5 88.7 88.5 87.7 86.6 87.6 86.3 84.7 85.8 85.9 86.1 87.8 89.0 88.8 87.4 81.2 72.1 611.0 85.3 86.7 86.2 85.2 85.2 85.2 85.2 85.2 85.2 85.2 85	515	95.6		93.1	95.0	93.0	92.2	90.9	87.3	90.3	90.4	92.5	25.26	93.3	93.0	91.7	85.4	74.3	65.4	5.07
85.8 81.0 86.3 66.1 85.2 85.2 85.2 83.9 82.4 83.5 83.6 85.8 85.5 85.7 86.5 85.7 86.5 85.2 76.4 67.3 56.2 85.8 81.1 81.8 81.1 81.8 81.1 81.8 82.9 76.4 67.3 56.2 85.8 81.1 81.8 82.1 82.1 82.0 80.9 76.4 67.3 56.2 76.8 81.1 81.8 82.1 82.0 81.5 77.9 77.0 77.1 76.2 75.2 76.2 76.2 76.4 77.2 77.0 77.0 77.0 77.0 77.0 77.0 77.0	200	9006		88.5	87.7	80.6	87.6	86.3	84.7	85.8	85.9	86.1	87.8	89.0	86.8	87.4	81.2	72.1	61.0	66.2
85.6 83.7 83.6 82.5 83.6 82.7 83.5 80.1 81.1 81.2 83.4 83.2 84.5 84.5 84.5 76.4 67.3 56.2 82.8 81.1 81.8 82.8 84.5 84.5 82.9 76.4 67.3 56.2 82.8 81.1 81.8 82.8 82.8 82.8 77.2 77.2 77.2 77.2 77	630	98.0		06.1	85.2	86.2	85.2	83.9	82.4	83.5	83.6	35.8	85.5	85.7	86.5	85.2	78.9	69.7	58.7	64.0
82.8 61.0 60.9 79.7 61.0 60.0 76.9 77.7 78.7 78.8 61.1 60.8 62.1 62.0 60.5 77.9 71.0 62.0 50.9 75.2 76.2 76.2 76.2 76.3 78.6 70.4 79.7 79.5 77.9 71.0 62.0 50.9 76.9 76.2 76.2 76.2 76.0 75.9 77.2 77.0 75.3 66.1 59.1 60.0 75.9 77.2 77.0 75.3 66.1 59.1 60.0 75.9 77.2 77.0 75.3 66.1 59.1 48.0 73.7 72.0 72.1 70.4 72.6 64.9 65.9 65.9 65.9 65.9 65.9 65.9 65.9 65	800	85.5		93.6	82.5	93.6	82.7	81.5	80.1	81.1	91.2	83.4	83.2	84.5	84.3	85.9	16.4	67.3	2.99	61.6
79.9 75.2 76.7 78.2 76.7 77.3 76.3 75.2 76.2 76.2 76.3 75.6 73.4 79.7 79.5 77.9 71.0 62.0 50.9 75.2 75.2 75.2 77.1 75.3 76.3 75.2 76.2 76.2 76.3 75.4 79.7 79.5 77.0 75.3 68.1 59.1 48.0 73.7 72.0 75.2 77.0 75.3 74.6 74.4 72.6 64.9 56.1 59.1 48.0 73.7 72.0 75.1 77.0 75.3 68.1 59.1 48.0 70.1 70.1 72.0 72.0 72.0 72.0 72.0 72.0 72.0 72.0	1000	82.8		9.08	79.7	0.10	80.0	78.9	77.7	78.7	78.8	81.1	80.8	82.1	82.0	80.5	73.8	64.7	53.6	59.2
76.9 75.2 75.2 73.6 75.3 74.4 73.6 72.6 73.6 73.7 76.0 75.9 77.2 77.0 75.3 68.1 59.1 48.0 73.7 72.0 72.1 72.4 72.3 74.4 72.3 74.4 72.5 64.9 56.1 45.0 73.7 72.0 72.1 72.4 72.3 74.4 72.5 64.9 56.1 45.0 70.1 66.4 68.7 66.9 68.0 68.0 68.0 68.0 68.0 68.0 68.0 68.0	1250	79.9		78.2	76.7	78.2	77.3	76.3	75.2	76.2	76.3	78.6	78.4	79.7	79.5	77.9	71.0	62.0	50.9	56.6
73.7 72.0 72.1 70.4 72.3 71.4 70.8 69.9 70.9 71.0 73.4 73.3 74.6 74.4 72.6 64.9 56.1 45.0 70.1 66.4 68.7 66.9 68.0 68.0 67.9 68.0 70.4 70.3 71.7 71.5 69.5 61.4 52.7 41.6 66.2 64.8 63.1 66.2 64.8 65.1 66.2 64.3 68.0 67.9 68.0 70.4 70.3 71.7 71.5 69.5 61.4 52.7 41.6 61.2 64.2 64.3 64.3 64.7 64.5 65.0 65.0 65.0 65.0 65.0 65.0 65.0 65	1630	76.9		75.2	73.6	75.3	74.4	73.6	72.6	73.6	73.7	76.0	15.9	77.2	77.0	75.3	68.1	59.1	48.0	53.8
70.1 66.4 68.7 66.9 68.9 68.0 67.8 66.9 67.9 68.0 70.4 70.3 71.7 71.5 69.5 61.4 52.7 41.6 66.2 64.8 63.1 65.1 04.2 64.3 65.4 67.0 67.0 67.0 67.0 67.0 67.0 57.0 41.6 49.0 38.0 61.8 60.2 66.0 57.6 49.0 38.0 61.8 60.2 60.8 57.6 49.0 57.0 41.6 61.8 60.2 65.0 57.6 49.0 38.0 55.3 55.3 55.4 54.4 55.5 56.2 56.2 56.6 59.0 59.1 60.5 60.4 57.9 49.1 40.5 33.9 55.3 55.4 54.4 55.5 56.2 56.2 56.6 59.0 59.1 60.5 60.4 57.9 49.1 40.5 59.6 51.3 50.0 51.7 50.7 52.1 52.2 54.6 54.7 56.2 56.0 57.9 49.1 40.5 25.0 45.4 44.8 45.9 45.1 47.0 48.4 48.6 50.9 51.1 52.6 52.3 49.9 41.2 35.2 21.3 33.4 34.9 36.3 35.9 34.4 42.7 47.0 47.7 47.0 47.7 47.0 47.7 47.0 47.2 48.6 48.3 46.1 37.6 28.4 17.6 33.4 33.9 34.4 33.9 34.4 42.0 33.9 24.5 13.7 30.7 33.2 27.3 34.2 35.3 35.3 35.0 38.1 37.6 39.1 37.6 39.1 37.6 39.1 37.6 39.1 37.6 28.7 28.7 28.7 28.7 28.7 28.7 28.7 28.7	2000	73.7		72.1	70.4	72.3	71.4	70.8	6.69	70.9	71.0	73.4	73.3	74.6	74.4	72.6	6.49	56.1	45.0	50.9
b6.2 64.5 64.4 63.1 65.1 04.2 64.3 63.4 64.5 64.6 67.0 67.3 68.4 68.2 66.0 57.6 49.0 38.0 61.8 61.8 61.8 61.2 63.3 64.7 64.5 62.1 53.4 44.9 33.9 56.9 55.3 54.6 53.3 64.7 64.5 62.1 53.4 44.9 33.9 56.9 55.3 54.6 51.7 54.5 55.0 51.7 54.5 55.0 51.7 64.5 61.4 57.9 49.1 41.5 29.6 51.3 51.0 51.7 52.1 52.2 54.6 54.7 56.2 56.0 53.4 44.6 52.9 25.0 45.4 44.6 51.7 51.7 51.7 52.1 52.2 54.6 54.7 56.2 56.3 49.9 41.2 35.9 25.0 45.4 44.6 51.7 47.0 48.4 48.6 51.9 51.1 52.6 52.3 49.9 41.2 32.2 21.3 33.4 34.9 36.9 36.9 39.6 38.9 40.1 46.4 42.7 47.7 47.7 47.7 47.7 47.7 47.7 47	2500	70.1		68.7	6.99	6.89	68.0	67.8	6.99	6.79	68.0	70.4	70.3	711.7	71.5	69.5	61.4	52.7	41.6	47.7
61.8 610.2 610.6 59.0 61.0 00.1 610.5 59.6 610.8 610.9 63.2 63.3 64.7 64.5 02.1 53.4 44.9 33.9 56.9 55.3 56.9 59.0 610.8 610.9 63.2 63.3 64.7 64.5 02.1 53.4 44.9 33.9 51.3 51.3 51.0 51.7 49.6 51.4 51.5 51.7 52.1 52.2 54.6 59.0 59.1 610.5 610.4 57.9 49.1 410.5 29.6 51.3 51.0 51.7 49.6 51.4 51.5 51.7 52.1 52.2 54.6 54.7 56.2 56.0 53.4 44.6 35.9 25.0 55.0 45.4 44.6 45.9 45.1 47.0 48.3 44.6 51.3 51.3 51.3 51.3 51.3 51.3 51.3 51.3	3150	66.2		64.3	63.1	65.1	2.40	54.3	63.4	64.5	9.49	67.0	67.3	68.4	68.2	99	9.76	10.64	38.0	44.1
56.9 55.8 54.4 56.4 55.5 56.2 55.3 56.5 56.6 59.0 59.1 60.5 60.4 57.9 49.1 40.5 29.6 51.3 50.0 51.7 49.6 51.4 50.5 51.7 50.7 52.1 52.2 54.6 54.7 56.2 56.0 53.4 44.6 35.9 25.0 45.4 44.6 45.9 45.1 47.0 46.0 48.1 47.0 48.4 48.6 50.9 51.1 52.6 52.3 49.9 41.2 32.2 21.3 39.2 39.8 41.2 40.5 42.5 41.5 43.9 43.1 44.4 44.7 47.0 47.2 48.6 48.3 46.1 37.6 28.4 17.6 33.4 34.9 36.5 35.7 33.0 36.9 38.9 40.1 40.4 42.7 42.7 42.9 44.4 43.9 42.0 33.9 24.5 13.7 28.0 31.7 28.7 26.7 29.5 29.0 31.0 30.9 32.9 26.6 18.4 5.8 9.7 22.7 24.7 26.9 27.1 28.6 28.2 28.0 23.1 12.6 2.2 21.3 17.1 19.0 20.9 19.4 22.0 20.9 23.6 23.3 24.2 24.8 26.9 27.1 28.6 28.2 28.0 23.1 12.6 2.2 21.3 27.9 27.1 28.6 28.2 28.0 23.1 12.6 2.2 24.8 26.9 27.1 28.6 28.2 28.0 23.1 12.6 2.2 28.0 23.1 12.6 2.2 24.8 26.9 27.1 28.6 28.2 28.0 23.1 12.6 2.2 28.0 23.1 12.6 2.2 24.8 26.9 27.1 28.6 28.2 28.0 23.1 12.6 2.2 28.0 23.1 12.6 2.2 28.0 23.1 12.6 2.2 24.8 26.9 27.1 28.6 28.2 28.0 23.1 12.6 2.2 28.0 23.1 12.6 2.2 28.0 23.1 12.6 2.2 24.8 26.9 27.1 28.6 28.2 28.0 23.1 12.6 2.2 28.0 23.1 12.6 2.2 24.8 26.9 27.1 28.6 28.2 28.0 23.1 12.6 2.2 28.0 23.1 23.1 12.6 2.2 24.8 26.9 27.1 28.6 28.2 28.0 23.1 12.6 2.2 28.0 23.1 12.6 2.2 24.8 26.9 27.1 28.6 28.2 28.0 23.1 12.6 2.2 28.0 23.1 28.6 28.0 23.1 12.6 28.2 28.0 23	0000	61.8		9.09	29.0	61.0	00.1	60.09	9.69	60.8	6.09	63.2	63.3	2.49	64.5	62.1	53.4	6.44		40.2
51.3 51.0 51.7 49.6 51.4 50.5 51.7 50.7 52.1 52.2 54.6 54.7 56.2 56.0 53.4 44.6 35.9 25.0 45.4 44.6 35.9 25.0 45.4 44.6 45.9 45.1 45.1 45.1 45.1 45.0 48.4 48.6 51.9 51.1 52.6 52.3 49.9 41.2 32.2 21.3 39.2 39.8 41.2 41.5 42.5 41.5 43.9 43.1 44.4 44.7 47.0 47.2 48.6 48.3 46.1 37.6 28.4 17.6 33.4 34.9 36.5 35.7 38.0 36.9 39.6 38.9 40.1 44.4 42.7 42.9 44.4 43.9 42.0 33.9 24.5 13.7 28.0 30.0 31.7 33.2 32.0 34.8 34.2 35.3 35.8 38.9 38.9 38.9 38.9 38.9 38.1 37.6 58.5 15.7 22.7 24.7 26.0 25.3 27.9 26.7 29.5 29.0 30.0 30.5 32.8 32.9 34.4 33.9 32.9 26.6 16.4 5.8 17.1 19.0 20.9 19.4 22.0 20.9 23.6 23.3 24.2 24.8 26.9 27.1 28.6 28.2 28.0 23.1 12.6 2.2	5000	6.95		55.8	24.4	96.4	52.5	56.2	55.3	56.5	9.99	99.0	59.1	60.5	4.09	6. 15	49.1	40.5		35.8
45.4 44.8 45.9 45.1 47.0 46.0 48.1 47.0 48.4 48.6 50.9 51.1 52.6 52.3 49.9 41.2 32.2 21.3 39.2 39.8 41.2 40.5 42.5 41.5 43.9 43.1 44.4 44.7 47.0 47.2 48.6 48.3 46.1 37.6 28.4 17.6 33.4 34.9 36.5 35.7 38.0 36.9 38.9 40.1 40.4 42.7 42.9 44.4 43.9 42.0 33.9 24.5 13.7 28.0 30.0 31.0 31.2 35.3 35.8 35.8 30.1 39.6 39.1 37.6 30.2 21.5 9.7 22.7 24.7 26.0 25.3 27.9 26.7 29.5 29.0 30.0 30.5 32.8 32.9 34.4 33.9 32.9 26.6 16.4 5.8 17.1 19.0 20.9 19.4 22.0 20.9 23.6 23.3 24.2 24.8 26.9 27.1 28.6 28.2 28.0 23.1 12.6 2.2	6300	51.3		29.7	9.64	51.4	50.5	51.7	20.5	52.1	55.2	24.6	24.7	56.2	56.0	53.4	44.6	35.9		31.3
39.2 39.8 41.2 40.5 42.5 41.5 43.9 43.1 44.4 44.7 47.0 47.2 48.6 48.3 46.1 37.6 28.4 17.6 33.4 34.9 36.5 35.7 38.0 35.9 39.6 38.9 40.1 40.4 42.7 42.9 44.4 43.9 42.0 33.9 24.5 13.7 28.0 31.0 31.7 31.2 32.0 34.8 34.2 35.3 35.8 38.0 38.1 39.6 39.1 37.6 31.2 21.5 9.7 22.7 24.7 26.0 25.3 27.9 26.7 29.5 29.0 31.0 30.5 32.8 32.9 34.4 33.9 32.9 26.6 16.4 5.8 17.1 19.0 20.9 19.4 22.0 20.9 23.6 23.3 24.2 24.8 26.9 27.1 28.6 28.2 28.0 23.1 12.6 2.2	8000	45.4	*	45.9	45.1	47.0	46.0	48.3	47.0	48.4	48.6	50.0	51.1	95.6	52.3	6.64	41.2	32.2		27.8
33.4 34.9 36.5 35.7 33.0 36.9 39.6 38.9 40.1 40.4 42.7 42.9 44.4 43.9 42.0 33.9 24.5 13.7 28.0 30.0 31.7 30.7 33.2 32.0 34.8 34.2 35.3 35.8 38.0 38.1 39.6 39.1 37.6 30.2 20.5 9.7 22.7 24.7 26.0 25.3 27.9 26.7 29.5 29.0 30.0 30.5 32.8 32.8 32.9 34.4 33.9 32.9 26.6 16.4 5.8 17.1 19.0 20.9 19.4 22.0 20.9 23.6 23.3 24.2 24.8 26.9 27.1 28.6 28.2 28.0 23.1 12.6 2.2	10300	39.5		41.2	40.5	42.5	41.5	43.9	43.1	4.4.4	44.7	47.0	47.2	48.6	48.3	46.1	37.6	28.4	17.6	24.1
28.0 30.0 31.7 30.7 33.2 32.0 34.8 34.2 35.3 35.8 38.0 38.1 39.6 39.1 37.6 30.2 20.5 9.7 22.7 24.7 26.0 25.3 27.9 26.7 29.5 29.0 30.0 30.5 32.8 32.9 34.4 33.9 32.9 26.6 16.4 5.8 17.1 19.0 20.9 19.4 22.0 20.9 23.6 23.3 24.2 24.8 26.9 27.1 28.6 28.2 28.0 23.1 12.6 2.2	12500	33.4		36.5	35.7	38.0	36.9	39.6	38.9	40.1	+0.4	42.7	45.9	4.4.4	43.9	42.0	33.9	24.5	13.7	20.3
22.7 24.7 26.0 25.3 27.9 26.7 29.5 29.0 30.0 30.5 32.8 32.9 34.4 33.9 32.9 26.6 16.4 5.8 17.1 19.0 20.9 19.4 22.0 20.9 23.6 23.3 24.2 24.8 26.9 27.1 28.6 28.2 28.0 23.1 12.6 2.2	16000	28.0		31.7	30.7	33.2	32.0	34.8	34.2	35.3	35.8	38.0	38.1	39.6	39.1	37.6	30.2	20.5	9.7	16.3
17.1 19.0 20.9 19.4 22.0 20.9 23.6 23.3 24.2 24.8 26.9 27.1 28.6 28.2 28.0 23.1 12.6 2.2	20000	22.7		26.0	25.3	27.9	26.7	59.5	29.0	30.0	30.5	32.8	32.9	34.4	33.9	32.9	56.6	16.4	5.8	12.3
	25000	17.1		50.9	19.4	22.0	50.9	23.6	23.3	24.2	24.8	56.9	27.1	28.6	28.2	28.0	23.1	15.6	2.2	8.5

NOISE SOURCE/SUBJECT:		1	FUNCTION OF A	ANGLE A	ANU DIS	DISTANCE	FROM SC	SOURCE								TEST	TEST 76-578-001	78-001	
GROUN	E SOURCE/SUB F-106 AI ENG. J75-P-1 GROUNU RUNUP	BJECT 1 IRCRAF 17	_ =		OPER	OPERATIONS ENGINE SINGLE EST. F-	RUNUP, 85% RPH ENGINE, F-106 -105 +0.008	852 R F-10	E.o	2222	METEOROLOGY S TEMP BAR PRES REL HUMI DELTA N =	PRESS HUMID	= 59.92 = 29.92 = 70	9 F H G	g	PROFE	AIRCRAFT COPERATION COPERATION COPPOFILE VER	ODE SODE SSION	578 01018
DISTANGE (FEET)	•	10	20	30	3	5.0	6.0	7.0	ANGLE 80		(DEGREES) 90 100	110	120	130	140	150	160	170	180
	102.8	100.2	100.2	99.2		1.66	97.0	95.0	1.56	1.46	97.8	4.96	97.5	9.86	97.1	91.5	82.6	71.1	76.7
	100.6	98.0	98.0	97.0	97.	6.96	8.46	95.9	93.5	95.0	95.7	94.3	4.56		95.1	89.5	80.5	69.0	74.6
315	99.4	95.8	95.0	94.6	95.6	94.7	95.6	7.06	91.3	4.06	93.5	92.2	93.3	4.46	93.0	87.4	78.3	66.8	72.5
200	93.7	91.1	91.2		9 1	90.1	88.0	86.3	96.90	85.9	39.1	87.8	89.0	90.2	88.8	83.2	73.9	62.4	68.3
630	91.2	88.6	08.7		88	97.6	85.6	84.0	0 40	83.6	86.8	85.5	86.7		86.5	80.8	71.5	60.0	66.0
906	2.00	86.1	80.2	94.5	96.	45.1	83.1	81.7	82.2	81.2	84.5	83.2	84.5	85.7	84.2	18.4	69.1	57.6	63.7
1000	86.0	83.4	83.6	81.7	83.4	82.5	80.6	79.2	79.8	78.8	82.1	80.8	82.1	83.4	81.8	75.8	66.5	55.0	61.2
1250	43.1	80.5	80.8		80.6	19.8	78.0	76.7	77.2	76.3	19.6	78.4	79.7	81.0	79.3	73.0	63.8	52.3	58.6
16.0	80.1	77.5	77.9	75.	7.77	76.9	75.3	74.2	74.6	73.7	77.0	15.9	77.2	78.4	7.97	20.0	6.09	4.64	55.9
2000	16.9	74.3	74.8	72.5	7.4.6	73.8	72.5	71.5	72.0	71.0	14.4	73.3	74.6	15.9	74.0	6 • 9 9	57.8	4094	52.9
2500	73.3	70.8	71.3	69.0	71.3	70.5	4.69	68.4	68.9	68.0	71.4	73.3	711.7	72.9	70.9	63.4	24.5	43.0	49.7
3150	4.69	60.9	67.5	65.5	67.5	2.99	66.0	65.0	9.69	9.49	68.0	67.0	68.4	9.69	4.19	29.6	20.8	39.4	46.2
000+	4.49	62.1	62,1	9.09	65.9	62.1	61.0	60.9	61.6	6.00	64.1	63.3	2.49	65.6	63.2	25.0	46.4	35.1	41.8
2000	58.8	26.7	57.4	25.7	57.8	57.0	2.16	299	2.2	9.99	9.69	59.1	60.5	61.3	28.7	50.3	41.6	30.4	37.0
6300	25.6	59.0	51.7	20.4	55.4	51.5	55.4	51.3	55.5	55.5	22.0	24.7	26.2	96.6	24.0		36.6	52.5	32.1
9030	1000	45.3	4004		47.5	46.5	48.3	4.7.4	48.6	48.6	51.1	51.1	95.6	52.5	50.5	11.6	32.6	21.6	28.2
10000	39.5	39.8	41.2	*0*	42.5	41.5	43.9	43.1	4.4.4	44.7	47.0	47.2	48.6	48.3	46.1	37.6	28.4	17.6	24.1
12500	33.4	34.9	36.5	35.	38.0	36.9	39.6	38.9	40.1	40.4	42.7	45.9	44.4	43.9	42.0	33.9	54.5	13.7	20.3
16000	28.0	30.0	31.7		33.2	32.0	34.8	34.2	35.3	35.8	38.0	38.1	39.6	39.1	37.6	30.5	20.5	4.6	16.3
20000	22.7	24.7	26.6	25.	27.9	26.7	59.62	29.0	30.0	30.5	32.8	32.9	34.4	33.9	32.9	56.6	16.4	5.8	12.3
25000	17.1		0 00																•

DISTANCE = 2			76-578-0
NOISE SOURCE/SUBJECT: F-106 AIRCRAFT ENG. J75-P-17 GROUND RUNUP	(OPERATION: (ENGINE RUNUP, 85% RPH (SINGLE ENGINE, F-106 (EST, F-105 +0.008	ETEOROLOGY: TEMP = 59 BAR PRESS = 29,92 REL HUMID = 70 ELTA N = .1 DB	2
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160 (

ABLE: NON	NUKMALIZED 1/3 OCTAVE DISTANCE =	E BAND	FE	1	2		3									OMEGA	4 60	-001	
	SOURCE/SUBJECT: 06 AIRCRAFT • J75-P-17 UND RUNUP			0 11 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14	RATI INGI	ION: TARY POWER, LE ENGINE, F-105 +0.00		F-106 06% RP B	E	AETE	EMP EMP AR PRES TA N =	0671 ESS =	59 22 70 70 10 0 d	I Z LHX		AIRCRAFT OPERATION PROFILE VE 20 APR 76 PAGE C3	75 CO	CODE 57 CODE 01 ERSION	78 1004 A
BAND CENTER								A	1	2	. 0							!	
FREG (HZ)		10	20	30	6.	20	09	20	90	96	100	110	120	130	140	150	160 >1	170 >	180
20	82	82	95	9 8	98	80	98	68	90	90	93	26	66	106	109	106	100	06	80
63	94	85	87	87	88	68	69	91	95	16	46	101	103	109	112	109	100	06	80
98	96	87	87	88	88	60	91	95	* 10	95	86	101	106	112	115	109	100	06	80
100	60	, d	16	160	16	76	200	200	76	9 6	101	104	101	112	119	110	86	20 0	7.8
166	18	16	96	36	96	95	96	66	101	101	105	109	112	115	121	113	97	87	72
200	93	93	16	93	16	93	96	66	66	100	101	108	112	115	115	110	95	82	72
250	88	91	35	93	93	95	66	26	98	66	103	106	108	115	115	106	91	81	71
315	68	76	16	95	96	97	26	98	101	102	105	109	111	114	119	104	95	82	72
004	91	46	26	96	26	96	66	101	102	103	107	111	112	115	118	104	91	81	7.1
200	93	95	96	35	96	+6	100	101	101	102	106	110	111	112	115	102	88	28	68
630	90	92	95	95	96	96	96	96	96	101	104	107	110	112	114	86	88	78	68
800	91	16	96	95	95	95	98	26	26	100	104	108	109	110	109	97	84	74	49
1000	98	88	91	93	*6	95	95	91	95	96	66	103	101	101	109	76	83	73	63
1250	82	85	88	68	16	95	90	68	95	93	98	103	105	104	106	93	80	20	9
1600	82	86	87	87	68	8.5	91	46	96	46	66	104	102	102	105	91	7.8	89	28
2036	97	83	48	87	88	88	93	46	96	26	100	102	103	102	104	89	78	89	28
2500	82	84	82	88	88	80	96	96	96	101	103	104	101	26	101	96	15	65	25
3150	11	81	94	96	87	89	93	93	16	98	100	101	66	95	86	82	72	29	52
0004	92	90	82	82	99	91	26	93	95	26	100	103	66	96	97	80	72	62	52
2000	15	19	78	83	85	87	87	68	35	16	96	101	96	95	96	78	69	66	64
6340	7.1	16	78	81	85	40	80	88	90	93	96	100	95	93	93	11	29	25	47
9038	7.0	14	16	19	81	83	82	87	83	91	16	16	93	95	91	15	99	96	46
10000	9	7.0	73	15	92	62	6.0	91	79	86	68	95	68	87	8 8	72	62	25	45
OVERALL	102	104	105	105	106	106	109	110	111	112	116	119	121	125	128	119	107	26	87

FT (OPERATION:) HETCOROLOGY: 1 AIRCRAIN 0.3		AS A	FUNCTION	9	ANGLE A	AND DIS	ND DISTANCE	FROM S	SOURCE) TEST	76-57	76-578-001	
Tarance 10	NOISE SE	DURCE/S	AIRCRAI	- =		OPER	ATIONS MILITAR SINGLE EST. F	ENGINE	F, F-1	26 RPM		TETEORC TEN BAR BAR REL	PRESS HUMIC	1 11 11 1	Z LHX	ی	PROPER	CRAFT RATION FILE VI	CODE CODE RSION	578 01304
111.3 113.6 115.3 116.3 117.6 118.9 121.8 123.2 124.0 126.3 129.0 131.2 133.2 133.2 135.8 124.4 1111.1 10.2 111.4 113.1 114.4 113.1 114.4 113.1 114.4 113.1 114.5 113.0 112.2 123.3 110.0 110.2 110.0	DISTANC		10	20	30	9	50	9	2	ANGL	-0	SREES)	110	120	130	140	150	:	!	180
109.2 111.4 113.1 114.1 115.3 116.6 119.6 121.0 121.7 126.0 129.6 129.6 123.0 123.0 120.2 100.9 101.8 113.0 114.3 117.3 118.7 119.5 121.8 122.6 122.6 122.9 128.9 133.6 120.2 106.9 101.8 102.9 101.8 111.8 111.9 111.9 112.0 112.0 112.0 112.0 122.2 122.6 122.6 122.4 126.9 121.6 120.2 106.9 100.7 109.8 100.8 100.7 109.8 100.8	200	111.3				117.6	118.9	121.			126.	129.0	131.9			~		1111	101.0	90.
107.0 109.2 110.9 111.8 113.0 114.3 118.7 119.5 121.8 124.6 127.4 126.9 128.9 123.6 120.2 106.9 110.0 109.7 110.0 110.9 115.0 116.7 110.5 117.1 119.5 122.6 125.7 126.7 129.4 118.0 1104.7 110.7 109.5 110.0 110.9 115.0 116.9 114.5 117.2 120.1 120.7 126.7 129.4 110.0 100.4 107.1 100.1 100.4 112.0 113.9 114.7 117.2 120.1 120.1 120.2 124.9 113.3 100.1	250	109.2				115.3	116.6	119.			124.	126.8	129.				m	0.601	6.86	88.
104.8 107.0 100.7 109.5 110.6 111.9 115.0 110.4 117.1 119.5 122.2 122.0 122.4 126.7 129.4 118.0 1104.7 100.2 100.7 100.4 107.1 109.6 112.0 112.0 112.0 113.9 115.7 110.2 110.2 110.2 110.2 122.2 122.4 127.5 127.2	315	107.0				113.0	114.3	117.			121.	124.6	127.				~	106.9	8.96	86.
102.5 104.7 100.4 107.6 103.4 102.7 110.0 111.4 112.2 114.5 117.2 120.4 122.5 124.9 113.7 102.1 103.1 103.1 103.9 107.4 100.7 110.5 117.5 117.0 120.1 122.2 124.9 113.3 100.1 101.1 103.1 103.9 107.4 100.7 110.5 117.5 117.6 119.8 122.2 124.9 113.3 100.1 101.1 103.9 107.4 100.7 110.9 111.7 114.6 117.4 117.6 119.8 122.5 110.7 97.7 97.8 101.5 101.6 102.1 103.9 107.4 100.7 100.9 101.7 111.0 112.4 114.6 117.4 105.0 92.3 99.5 99.6 99.6 99.6 100.9 101.9 103.1 103.1 103.1 103.0 92.3 99.6 99.6 99.6 101.9 103.5 101.8 114.6 117.4 105.0 92.3 99.6 99.6 99.6 99.6 101.9 103.5 101.8 114.6 117.4 105.0 92.3 99.6 99.6 99.6 99.6 101.9 105.5 106.5 108.9 110.7 102.7 102.0 92.3 99.6 99.6 99.6 101.9 105.5 106.5 108.9 111.7 98.9 96.1 92.3 99.6 99.6 101.9 105.5 106.5 108.9 111.7 98.9 96.1 92.3 99.6 99.6 101.9 105.5 106.5 108.9 111.7 98.9 96.1 92.3 99.6 99.6 99.8 90.7 77.7 74.0 75.0 75.7 74.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75	200	104.8				110.6		115.			119.	122.2	125.			+ .	0	104.7	94.5	83.
97.7 99.8 101.6 102.0 103.1 103.9 107.4 106.7 109.5 111.0 114.6 117.6 119.8 122.5 110.7 97.7 99.8 101.6 102.0 103.1 103.9 107.4 106.7 109.5 111.0 111.7 114.6 119.8 122.5 110.7 97.7 99.8 101.6 102.0 103.1 103.9 107.4 106.7 109.5 111.0 111.7 114.6 117.6 119.8 122.5 110.7 97.7 92.3 99.8 96.8 99.6 90.8 100.9 106.7 111.6 111.6 111.7 102.5 111.0 108.0 95.3 89.5 91.6 91.6 91.6 91.6 91.8 91.6 91.8 91.6 91.8 91.6 91.8 91.8 91.8 91.8 91.8 91.8 91.8 91.8	200	106.3				10001		117.0			110.1	119.0	177.0	155.4	124.5	4 0		4.201	200	010
95.1 97.3 99.0 99.3 100.4 101.0 104.6 105.9 106.6 109.0 111.7 114.0 115.1 117.3 120.0 108.0 95.2 92.3 94.5 96.6 97.6 98.0 101.5 10.5 10.7 111.0 112.4 114.5 117.4 105.0 95.3 89.5 91.6 94.5 95.6 94.6 94.2 93.5 108.9 100.5 111.0 110.5 117.4 105.0 95.3 89.3 91.6 91.6 91.8 91.6 91.6 91.6 91.6 91.6 91.6 91.6 91.6	900	97.7		1 11	102.0	103.1				1.19.5	111.8	114.6	117.4	117.6	119.8	D 10	2 0	1.001	87.1	76.5
95.1 97.3 99.0 99.3 100.4 101.0 104.6 105.9 106.6 109.0 111.7 114.6 115.1 117.3 120.0 108.0 95.2 92.3 94.5 96.6 97.6 98.0 101.5 102.8 103.6 105.9 108.7 111.0 112.4 114.5 117.4 105.0 92.3 69.5 91.6 93.6 94.7 95.0 98.2 99.5 100.3 102.6 105.4 108.6 109.5 111.8 114.6 102.0 92.3 69.5 91.6 93.6 90.0 90.0 90.0 90.0 90.0 90.0 101.9 105.5 106.5 108.9 111.7 98.9 86.1 85.4 69.6 90.0 90.0 90.1 101.9 105.5 106.5 108.9 111.7 98.9 86.1 85.1 85.2 80.9 86.3 90.0 101.9 105.7 105.1 108.0 95.1 82.1 79.2 81.3 43.0 45.0 84.6 87.2 87.9 88.9 90.5 94.1 97.7 98.8 100.9 103.8 90.7 77.7 74.8 76.9 74.7 73.7 73.7 73.7 73.7 73.7 73.7 73.7																			:	
92.3 94.5 96.6 97.6 97.6 98.0 1011.5 102.8 103.6 108.7 1111.0 112.4 114.5 117.4 105.0 92.3 89.5 91.6 93.6 94.7 95.0 98.2 99.5 101.3 102.6 105.6 109.5 111.8 114.6 102.0 89.3 85.4 85.4 83.6 94.7 95.0 94.2 99.0 1011.9 105.5 106.5 108.9 111.7 102.0 89.3 85.1 85.2 91.6 91.6 91.8 91.2 91.2 92.0 93.0 1011.9 105.5 105.5 105.1 108.0 111.7 98.9 86.1 83.1 83.2 85.2 80.9 86.8 91.2 92.0 93.0 1011.7 102.7 105.1 108.0 95.1 82.1 77.7 77.7 77.2 81.3 83.0 83.0 83.0 84.6 87.2 87.9 88.9 90.5 94.1 97.7 98.8 100.9 103.8 90.7 77.7 77.1 72.2 74.3 74.1 75.0 75.5 78.0 78.6 79.6 81.1 84.8 86.5 89.7 91.5 94.0 86.1 73.1 77.7 77.7 77.7 77.1 72.2 74.3 74.1 75.0 75.5 78.0 78.6 79.6 81.1 84.8 86.5 89.7 91.5 94.1 81.3 68.3 61.2 65.3 65.2 64.9 65.3 65.3 65.3 65.3 65.3 65.3 65.3 65.3	1000	95.1				100.4	-	104.6		106.6	109.0	111.7	114.0	115.1		_	108.0	95.2	84.5	73.8
89.5 91.6 93.4 93.6 94.7 95.0 98.2 99.5 100.3 102.6 105.4 108.6 109.5 111.8 114.0 102.0 89.3 45.4 83.6 91.6 91.6 91.8 91.0 10.3 102.6 105.5 108.9 111.7 98.9 86.1 83.1 83.2 85.2 80.6 91.6 91.6 91.0 95.0 90.0 101.9 105.5 108.9 111.7 98.9 86.1 83.1 83.2 85.2 83.0 85.8 87.9 84.9 95.0 95.0 101.7 102.7 105.1 108.0 95.1 82.1 77.7 77.7 77.2 81.3 83.0 85.0 84.6 87.9 84.9 95.9 95.0 101.7 102.7 105.1 108.0 95.1 82.1 77.7 77.7 77.7 77.1 72.2 74.3 74.1 75.0 75.5 78.0 78.6 79.6 81.1 84.8 88.5 89.7 91.5 94.0 86.1 73.1 77.7 77.7 77.1 75.2 74.3 74.1 75.0 75.5 78.0 78.6 79.6 81.1 84.8 88.5 89.7 91.5 94.0 86.1 73.1 73.1 73.5 74.5 76.0 79.8 83.5 84.8 86.6 89.2 76.3 68.3 61.2 65.2 64.9 65.8 69.5 70.4 71.9 75.8 77.9 75.8 81.0 82.8 85.6 85.4 72.8 59.1 86.5 89.2 76.3 67.8 81.5 68.9 54.7 52.3 54.9 56.3 55.6 56.7 56.8 59.9 60.5 61.5 62.9 66.9 70.8 72.5 74.6 77.3 64.8 50.0 440.5 49.3 51.3 50.4 55.5 54.6 69.9 72.7 60.2 74.5 75.0 75.3 75.3 75.3 75.3 75.3 75.3 75.3 75.3	1250	92.3				97.6		101.5	162.8	133.6	105.9	108.7	111.			_	105.0	92.3	81.7	71.
86.4 83.6 90.4 90.6 91.6 91.9 94.6 96.0 96.9 99.0 101.9 105.5 106.5 108.9 111.7 98.9 86.1 83.1 85.2 86.9 86.8 87.8 88.3 91.2 92.0 93.0 96.1 101.7 102.7 105.1 108.0 95.1 82.1 79.2 81.3 83.2 83.2 86.8 101.9 103.8 90.7 77.7 74.8 76.9 7 74.7 73.7 73.7 73.7 73.7 73.7 73.7 73	1600	89.5				2.46		98.2	66.6	100.3	102.6	105.4	108.	10		_	102.0	89.3	78.6	68.6
#3.1 #5.2 #8.9 #8.9 #8.3 #9.1 #9.1 #9.1 #9.1 #9.1 #9.2 #9.9 #9.1 #9.1 #9.2 #9.9 #9.9 #9.1 #9.2 #9.9 #9.9 #9.1 #9.2 #9.9 #9.1 #9.7 #9.8 #9.0 #9.7 <td< td=""><td>2330</td><td>400</td><td></td><td></td><td></td><td>91.6</td><td></td><td>94.6</td><td>96.0</td><td>6.96</td><td>99.0</td><td>101.9</td><td>105.</td><td>10</td><td></td><td></td><td>98.9</td><td>86.1</td><td>75.5</td><td>64.8</td></td<>	2330	400				91.6		94.6	96.0	6.96	99.0	101.9	105.	10			98.9	86.1	75.5	64.8
79.2 81.3 43.0 43.0 84.0 84.6 87.2 87.9 88.9 90.5 94.1 97.7 98.8 100.9 103.8 90.7 77.7 7.7 74.8 76.9 74.7 78.7 79.7 78.7 79.7 80.3 83.4 84.4 85.9 89.6 93.3 94.4 96.2 99.0 86.1 73.1 70.1 70.2 74.1 72.2 74.1 72.2 74.1 72.2 74.1 84.8 86.5 89.7 91.5 94.1 81.3 68.3 65.1 73.1 70.1 70.5 73.0 73.5 74.5 76.0 79.8 83.5 84.8 86.6 89.2 76.3 63.1 61.2 63.3 65.2 64.9 65.3 64.9 65.3 65.4 72.8 65.1 70.9 75.8 77.8 77.9 75.8 77.5 81.0 82.8 85.4 72.8 59.1 60.9 60.4 61.4 61.4 61.4 61.8 64.5 65.2 66.2 67.6 71.5 75.3 76.9 78.8 81.5 68.9 54.7 55.3 54.6 57.3 64.8 57.3 64.8 57.3 64.8 57.3 64.9 56.3 55.6 56.7 56.8 59.9 60.5 61.5 62.9 66.9 70.8 72.5 74.6 77.3 64.8 50.0 44.5 42.9 49.3 51.3 50.4 51.5 51.2 54.8 55.3 56.3 57.8 61.9 65.9 67.6 69.9 72.7 60.2 44.5 42.8 49.1 42.8 44.1 45.7 51.1 56.3 66.2 64.9 68.0 55.1 37.9 32.9 33.8 37.0 38.2 36.7 42.8 44.1 45.7 51.1 56.3 66.2 64.9 68.0 55.1 37.9 31.7	2500	83.1				61.9		91.2	95.0	93.0	95.0	98.1	101	~		_	95.1	82.1	71.5	60.7
74.8 76.9 74.7 73.7 73.7 79.7 80.3 82.8 83.4 34.4 85.9 39.6 93.3 94.4 96.2 99.0 86.1 73.1 70.1 72.2 74.3 74.1 75.0 75.5 78.0 78.6 79.6 81.1 84.8 86.5 89.7 91.5 94.1 81.3 68.3 65.1 73.1 72.2 74.3 74.1 75.0 75.5 78.0 78.6 79.6 81.1 84.8 86.5 89.7 91.5 94.1 81.3 68.3 65.1 65.2 69.4 69.2 74.5 76.0 79.8 83.5 84.8 86.6 89.2 76.3 63.1 61.2 63.3 65.2 64.9 65.3 65.3 65.3 65.3 65.3 65.4 72.8 65.4 72.8 65.1 56.9 54.1 60.9 60.4 61.4 61.4 61.8 64.5 65.2 66.2 67.6 71.5 75.3 76.9 78.8 81.5 68.9 54.7 52.3 54.4 56.3 55.6 56.7 56.8 59.9 60.5 61.5 62.9 66.9 70.8 72.5 74.6 77.3 64.8 51.0 64.5 67.6 69.9 72.7 60.2 44.5 40.3 72.3 72.7 60.2 44.5 72.7 60.4 62.2 64.9 68.0 55.1 37.9 32.9 33.8 37.0 38.2 36.7 42.8 44.0 45.7 50.1 62.2 64.9 68.0 55.1 37.9 37.9	3150	79.2				8 0	84.	87.2		88.9	90.5	94.	1.16	•		_	2.06	77.7	67.1	55.
70.1 72.2 74.3 74.1 75.0 75.5 78.0 78.6 79.6 81.1 84.8 88.5 89.7 91.5 94.1 81.3 68.3 65.1 67.3 69.4 69.2 70.0 70.5 73.0 73.5 74.5 76.0 79.8 83.5 84.8 86.6 89.2 76.3 63.1 61.2 63.3 65.2 64.9 65.8 65.3 68.9 69.5 70.4 71.9 75.8 79.5 81.0 82.8 85.4 72.8 53.1 56.9 59.1 60.9 60.4 61.4 61.4 61.8 64.6 65.2 66.2 67.6 71.5 75.3 76.9 78.8 81.5 68.9 54.7 52.3 54.4 56.3 55.6 56.7 56.8 59.9 60.5 61.5 62.9 66.9 70.8 72.5 74.6 77.3 64.8 50.0 46.9 49.3 51.3 50.4 55.5 51.2 54.8 55.3 56.8 59.3 57.8 61.9 65.9 67.6 69.9 72.7 60.2 44.5 42.8 49.3 37.0 38.2 36.7 64.8 40.0 49.0 40.0 40.0 52.1 56.3 60.4 62.2 64.9 68.0 55.1 37.9 32.9 35.8 37.0 38.2 36.7 42.8 44.0 45.7 50.0 52.7 50.0 54.5 62.2 64.9 68.0 55.1 37.9	9004	74.8				19.1	80.	85.8		34.4	85.9	99.	93.3			_	86.1	73.1	62.3	50.6
61.2 63.3 69.4 69.2 7J.0 70.5 73.0 73.5 74.5 76.0 79.8 63.5 84.8 86.6 89.2 76.3 63.1 61.2 63.3 65.2 64.9 65.8 66.3 68.9 69.5 70.4 71.9 75.8 79.5 81.0 82.8 65.4 72.8 59.1 56.9 59.1 60.9 60.4 61.4 61.4 01.8 64.6 65.2 66.2 67.6 71.5 75.3 76.9 78.8 81.5 68.9 54.7 52.3 54.4 56.3 55.6 56.7 56.8 59.9 60.5 61.5 62.9 66.9 70.8 72.5 74.6 77.3 64.8 50.0 46.9 49.3 51.3 50.4 51.5 51.2 54.8 55.3 56.3 57.8 61.9 65.9 67.6 69.9 72.7 60.2 44.5 42.8 42.8 42.8 51.2 54.8 52.2 64.1 56.3 68.1 56.2 64.1 56.2 64.1 56.2 64.1 56.2 64.1 56.2 64.1 56.2 64.1 56.2 64.2 64.2 64.2 57.1 37.2 38.2 35.7 42.1 42.8 44.1 45.7 51.1 56.2 56.2 59.5 62.7 49.2 37.7	5000	70.1				15.0	15.	78.0		19.6	81.1	84.	88.5	~			81.3	68.3	57.2	44.8
56.9 59.1 60.9 60.8 66.3 68.9 69.5 70.4 71.9 75.8 79.5 81.0 82.8 85.4 72.8 59.1 56.9 59.1 56.9 59.1 56.9 59.1 60.9 60.8 61.8 61.8 61.8 61.8 61.8 61.8 61.8 61	6300	65.1				73.0	20.	73.0		74.5	76.0	79.	83.5	•			76.3	63.1	51.7	37.6
56.9 59.1 60.9 60.4 61.4 01.8 64.6 65.2 66.2 b7.6 71.5 75.3 76.9 78.8 81.5 68.9 54.7 52.3 54.4 56.3 55.6 56.7 56.8 59.9 60.5 61.5 62.9 66.9 66.9 70.8 72.5 74.6 77.3 64.8 50.0 46.9 49.3 51.3 50.4 51.5 51.2 54.8 55.3 56.3 57.8 61.9 65.9 67.6 69.9 72.7 60.2 44.5 42.9 49.0 49.0 49.0 55.3 56.0 52.1 56.3 61.4 62.2 64.9 68.0 55.1 37.9 32.9 35.8 37.0 38.2 36.7 42.8 44.0 45.7 50.0 54.2 56.2 59.5 62.7 49.2 30.7	8000	61.2	63.	65.2	6.49	65.8	.99		69.5	+	71.9	75.	19.5	0	85.8		72.8	59.1	47.2	32.
56.9 59.1 60.9 60.4 61.4 01.8 64.6 65.2 66.2 07.6 71.5 75.3 76.9 78.8 81.5 68.9 54.7 52.3 54.4 56.3 55.6 56.7 56.8 59.9 60.5 61.5 62.9 66.9 71.6 72.5 74.6 77.3 64.8 50.0 46.9 49.3 51.3 51.4 51.5 51.2 54.8 55.3 56.3 57.8 61.9 65.9 67.6 69.9 72.7 60.2 44.5 40.5 42.9 49.0 49.0 49.0 55.3 57.8 61.9 65.3 67.6 69.9 72.7 60.2 44.5 40.5 42.9 45.2 45.5 45.9 45.0 49.0 49.0 49.0 40.0 40.0 40.0 52.1 56.3 60.4 62.2 64.9 68.0 55.1 37.9 32.9 35.8 37.0 38.2 36.7 42.8 44.0 45.7 50.0 54.2 56.2 59.5 62.7 49.2 30.7																				
52.3 54.4 56.3 55.6 56.7 56.8 59.9 60.5 61.5 62.9 66.9 70.8 72.5 74.6 77.3 64.8 50.0 46.9 49.3 51.3 51.4 51.5 51.2 54.8 55.3 56.3 57.8 61.9 65.9 67.6 69.9 72.7 60.2 44.5 40.5 42.9 49.5 42.9 49.5 40.9 67.6 69.9 72.7 60.2 44.5 40.5 42.9 45.5 42.9 65.9 61.4 65.3 57.8 61.4 65.2 64.9 68.0 55.1 37.9 32.9 35.8 37.0 38.2 36.7 42.1 42.8 44.0 45.7 50.0 54.2 56.2 59.5 62.7 49.2 30.7	11300	96.9				61.4	61.8	9.49	65.2	999	9.79	71.5	75.3	16.9	78.8	81.5	68.9	24.7	45.0	20.8
46.9 49.3 51.3 50.4 51.5 51.2 54.8 55.3 56.3 57.8 61.9 65.9 67.6 69.9 72.7 60.2 44.5 44.5 44.5 42.9 45.2 44.2 45.5 44.6 49.0 49.5 50.6 52.1 56.3 60.4 62.2 64.9 68.0 55.1 37.9 32.9 35.8 37.8 37.0 38.2 36.7 42.1 42.8 44.0 45.7 50.0 54.2 56.2 59.5 62.7 49.2 30.7	12500	52.3				299	56.8	6.65	60.5	61.5	65.9	6.99	70.8	72.5	24.6	77.3	8 * 49	20.0	35.5	17.4
44.5 42.9 45.2 44.2 45.5 44.6 49.0 43.5 50.6 52.1 56.3 60.4 62.2 64.9 68.0 55.1 37.9 32.9 35.8 37.4 37.0 38.2 36.7 42.1 42.8 44.1 45.7 50.0 54.2 56.2 59.5 62.7 49.2 30.7	16000	6.94				51.5	51.2	54.8	55.3	56.3	57.8	61.9	69.6	9.79	6.69	72.7	60.2	44.5	28.4	2.
32.9 35.8 37.4 37.0 38.2 36.7 42.1 42.8 44.0 45.7 50.0 54.2 56.2 59.5 62.7 49.2 30.7	22330	49.5	42.	45.2		45.5	9.44	0.64	43.5	50.0	52.1	56.3	4.09	62.2	6.49	68.0	55.1	37.9	18.4	
	25000	32.9		37.0		38.5	36.7	42.1	45.8	7.44	45.7	50.0	54.5	56.2	56.6	62.7	7.64	30.7	8.4	

		-	AS A FUNCTION OF A	ANGLE A	AND DIS	DISTANCE	FROM S	SOURCE) TEST	76-	578-001	
NOISE SOURCE/SUBJECT! F-106 AIKJRAFT ENG. J75-P-17 GROUND RUNUP	JAS-P.	AIRCRAI	- =		O PER	RATIONS MILITARY SINGLE ENCES	RY POWER, F-106 ENGINE, 130% RP- 105 +0.006	R, F-1	.06 RPM		METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	PRESS HUMID	= 29. = 1 08	59 F 92 IN H 70 %	£ 6	AIRCRAF OPERATION OF PROFILE	RUN 03 AIRCRAFT OPERATION PROFILE VE 20 APR 76 PAGE E3	CODE	978 01004
DISTANCE (FEET)		70	20	36	0,	5.5	9	7.0	ANGL		(DEGREES) 90 100	110	120	130	140	150	160	*170 3	180
200	111.3	114.7	115.3	116.	117.6	118.9	123.0		124.0	127.6	130.0	132.9	131.2	133.2	135.8		11111	101.0	8.06
550	109.2				115.3				121.7	*	127.8	130.	129.1		133.7		109.0	6.86	88.6
315	107.0	110.4	110.9	1111	113.0	114.3	118.0	-	119.5	N a	125.6	128.4	126.9	128.9	131.6	~ <	106.9	96.8	80.3
	102.5		1001	107	1000				1111	0 4	120.8	22	122 1		123.4		7 60	020	9.50
630	100.1			104	105.6	106	111.2		112.2	115.8	118.2	121.1	120.1	122.2	124.9	m	1001	89.8	79.0
9 00	97.7			102.0	103.1	103	108.6	-	109.5		115.6	118.4	117.6	119.8	122.5	~	97.7	87.1	76.5
1000	95.1			66	100.4	101.	105.8	+	106.6	110.3	112.7	115.6	115.	117.3	120.0	108.0	95.2	84.5	73.8
1250	92.3			90	97.6	20 (102.7		103.6	107.2	109.7	112.6	112.	114.6	117.4	105.0	92.3	81.7	71.0
1600	6.50			93.	2 ** 6				100.3	103.9	136.4	109.6		111.8	114.6	102.0	89.3	78.6	68.0
2500	8 2 . 4	96.2	* 0		91.0		20.00		96.50	100.3	1000	100.5	100.7	1000	1111.	6.00	80.1	7.50	0.40
3150	79.2			93.	84.0				88.9	91.8	95.1	98.7		1001	103.8	40.7	77.7	67.1	55.9
40.00	74.8		78.7	78.	7.67		83.7		94.4	87.0	90.4	94.1		96.2	99.0	86.1	73.1	62.3	50.8
2000	70.1	72.9		74.	75.0	75.	7.87		19.6	81.9	85.4	89.1		91.5	94.1	81.3	68.3	57.2	44.8
6300	65.1			69	70.0	70.	73.4	~	74.5	76.5	80.2	83.9		86.6	89.2	76.3	63.1	51.7	37.8
8000	61.2	63.6	65.2	6.49	65.8	90	69.1	69.8	1004	72.2	16.0	19.1		85.8	85.4	12.8	59.1	47.2	35.5
0000	9.4		0			4	61. 6	6 5 3	6 99	2 63	,,	7 24	7.	100	4	0	2 7		0
12500	52.3			55.6	56.7	26.6	24.4	5.5	61.5	200	96.9	70.8	72.5	74.6	77.3	6 4 . A	20.0	35.5	17.4
16000	46.9			50.	51.5	51.	54.8	55.3	56.3	57.8	61.	62.9	67.6	6.69	72.7	60.2	44.5	28.4	7.9
23000	40.5		45.2	**	45.5		49.0	49.5	50.6	52.1	50.	60.4	62.2	6.49	68.0	55.1	37.9	18.4	
25000	32.9			17	20 2	32		4 0											
				•	2000	200	1 . 74	0 . 74	200	120	200	24.6	2000	29.0	1.70	7.64	30.	**	

. SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

NATERRAFT		A CA	AS A FUNCTION OF	90 NO	ANGLE A	AND DE	AND DISTANCE	FROM	SOURCE) ONE	OMEGA 8.2 FEST 76-578-001	OMEGA 8.2 TEST 76-578-001	
u 10 20 30 40 50 60 70 80 90 10 10 120 130 140 150 160 90 10 <th< th=""><th>NOISE SOU</th><th>URCE/SI</th><th>AIRCRA-17</th><th>- =</th><th></th><th>OPER</th><th>ATION: MILITAR SINGLE</th><th>ENGINE ENGINE</th><th>ER, F-1 1,008</th><th>206 RPM</th><th>2000</th><th>TEN TEN BAR REL REL</th><th>PRESS HUMID</th><th></th><th>Z</th><th>ی</th><th>A A IR</th><th>CRAFT RATION FILE VI</th><th>CODE CODE ERSION</th><th>578 01004</th></th<>	NOISE SOU	URCE/SI	AIRCRA-17	- =		OPER	ATION: MILITAR SINGLE	ENGINE ENGINE	ER, F-1 1,008	206 RPM	2000	TEN TEN BAR REL REL	PRESS HUMID		Z	ی	A A IR	CRAFT RATION FILE VI	CODE CODE ERSION	578 01004
99.1 lule, 1ule, 1	DISTANCE	•	10	20	30	9	50	9	7.0	ANGL	1 111	100	110	120	130	140	150	1 1 1 1	>170	>180
97.6 99.4 101.4 101.7 102.7 103.5 105.6 106.4 107.5 109.6 112.7 116.1 116.7 118.2 120.7 108.0 94.8 97.3 99.4 101.4 101.7 102.4 101.4 103.4 104.2 105.3 107.3 110.5 113.9 114.6 116.2 116.9 105.9 92.7 92.8 93.2 99.6 101.6 101.4 103.4 101.2 102.8 103.8 101.2 101.1 108.6 105.9 91.4 101.2 111.7 112.4 114.0 116.5 103.8 91.6 93.1 95.2 95.2 96.2 96.9 98.9 97.7 103.8 102.8 103.7 107.1 108.0 109.6 112.2 97.8 93.8 93.8 93.8 93.8 93.8 93.8 93.8 93	200	99.1	-			104.8				109.0	1111.7	114.9	118.2	118.8	N	122.7	110.0	96.8	86.8	76.
92.8 95.2 97.2 97.4 98.4 99.2 101.2 102.0 103.1 108.3 111.7 112.4 114.0 116.5 103.8 90.6 93.1 95.0 95.2 97.2 96.2 96.9 99.7 101.2 102.0 109.4 110.2 111.3 114.4 101.6 08.5 103.8 90.6 93.1 95.0 95.2 96.2 96.2 96.9 99.7 101.0 102.0 109.4 110.2 109.5 112.2 99.3 06.2 90.6 90.7 91.7 92.3 94.2 95.0 98.0 104.3 7 107.1 108.0 109.5 112.2 99.3 06.2 90.8 90.8 90.8 90.8 90.8 90.8 90.8 102.3 103.4 105.1 107.7 94.8 94.0 90.8 90.8 90.8 90.8 90.8 90.8 102.3 103.4 105.1 107.7 94.8 94.0 94.0 90.8 95.9 90.8 90.8 90.8 90.8 91.8 95.9 97.8 100.1 102.6 91.9 76.5 76.4 73.4 93.9 95.9 95.9 97.8 101.0 102.6 105.2 91.9 76.5 76.4 73.4 93.9 95.9 97.8 101.0 102.6 105.2 91.9 76.5 76.4 73.4 93.9 95.9 97.8 101.0 102.6 95.9 97.8 100.0 102.6 95.9 97.8 100.0 96.4 73.7 76.4 73.4 93.9 93.8 90.8 93.8 90.8 90.8 93.8 93.8 93.8 93.8 93.8 93.8 93.8 93	315	97.6			-					105.3	109.6	112.7	116.1	~ .		120.7	108.0	94.8	84.8	72.7
90.6 93.1 95.0 95.2 96.2 96.9 99.7 130.8 102.8 106.0 109.4 110.2 111.9 114.4 101.6 08.5 88.4 90.8 92.8 93.0 94.0 94.7 96.6 97.4 98.4 100.4 103.7 107.1 108.0 107.5 112.2 99.3 86.2 96.1 90.0 90.0 90.7 91.7 96.6 97.4 98.0 101.3 104.8 105.7 107.4 110.0 97.0 94.0 94.0 94.7 96.6 97.4 98.0 101.3 104.8 105.7 107.4 110.1 97.0 94.0 94.0 96.3 88.3 96.8 102.8 102.6 105.7 107.4 110.1 97.0 94.0 91.0 91.0 92.9 96.3 99.8 102.3 103.4 105.1 107.7 94.5 81.6 91.6 81.8 92.9 95.3 99.8 101.0 102.6 105.2 91.9 79.1 79.0 81.4 83.5 83.4 84.8 88.7 90.0 91.0 91.0 91.0 91.0 91.0 91.0 91.0	100+	92.8								103.0	105.1	138.3	111.7			116.5	103.8	9006	80.6	70.
88.4 99.8 92.8 93.0 94.7 96.6 97.4 90.4 100.4 103.7 107.1 118.0 119.5 112.2 99.3 86.2 d6.1 88.0 90.0 90.0 90.7 91.7 92.3 94.2 95.0 98.0 101.3 104.8 105.7 107.4 110.0 97.0 84.0 d3.6 83.8 88.3 88.4 89.3 89.9 91.8 92.9 96.3 99.8 102.3 103.4 105.1 107.7 94.5 81.6 d1.4 83.5 83.4 84.8 86.7 87.3 88.3 90.2 93.6 97.2 98.8 102.5 103.5 103.2 91.9 79.1 79.0 81.4 83.5 83.4 84.8 86.7 87.3 88.3 90.2 93.6 97.2 98.8 101.1 102.6 89.2 76.5 76.4 76.4 77.9 78.8 79.2 81.0 84.3 87.9 91.6 97.2 98.9 101.1 102.6 89.2 76.5 76.4 76.4 76.9 76.4 97.9 94.6 97.2 97.8 97.5 100.1 102.6 89.2 76.5 70.4 72.8 74.9 74.8 75.6 76.0 76.1 77.7 78.0 79.0 81.0 84.3 87.9 91.6 92.9 97.5 100.1 00.6 87.2 65.6 65.6 69.3 71.4 71.2 72.0 72.5 77.2 80.9 84.6 86.1 87.5 89.6 77.2 67.2 66.6 69.3 71.4 71.2 72.0 72.5 77.2 80.9 84.6 86.1 87.5 89.6 77.5 65.6 65.6 66.5 69.9 70.0 70.0 70.9 73.0 76.7 78.9 88.6 86.1 87.5 89.6 77.5 71.4 71.2 72.0 72.9 72.1 72.9 72.1 72.2 72.0 72.2 72.0 72.3 72.1 72.2 72.0 72.1 72.2 72.0 72.3 72.1 72.2 72.0 72.3 72.1 72.2 72.0 72.3 72.1 72.1 72.1 72.1 72.1 72.1 72.1 72.1	200	9006								130.8	102.8	106.0	109.4	-		114.4	101.6	88.5	78.5	68.
43.4 64.0 91.0 95.0 96.0 101.3 104.8 105.7 107.4 110.0 97.0 04.0 96.0 101.0 31.0 105.0 107.0 96.0 101.0 107.1 107.7 94.9 81.0 81.0 81.0 81.0 95.9 96.0 96.0 107.2 98.8 101.0 107.2 98.8 107.1 107.7 94.9 96.0<	630	88.4				0.46				38.4	100.4	103.7	107.1	_		112.2	88.3	86.2	76.2	99
43.6 46.3 48.3 48.4 69.3 99.9 91.8 92.5 93.6 96.5 99.8 1012.3 103.4 105.2 107.2 91.8 101.0 1102.6 105.2 91.9 91.6 92.9 91.0 91.0 91.0 92.9 96.3 99.8 101.0 102.6 105.2 105.6 105.2 105.6 105.2 96.9 101.0 102.6 96.9 97.5 100.0 102.6 102.9 96.9 97.5 100.0 102.6 96.9 97.5 100.0 102.6 96.9 97.5 100.0 102.6 96.9 96.9 97.5 100.0 102.6 93.6 97.5 100.0 100.0 91.0	800	96.1	84.0	90.0		91.7			95.0	96.0		101.3	104.8			110.0	97.0	94.0	24.0	64.
41.4 43.9 45.9 45.3 96.3 99.8 101.0 102.6 105.2 91.9 79.1 79.0 41.4 43.5 43.4 84.3 86.7 97.2 98.5 100.1 102.6 89.2 76.5 76.4 73.4 81.9 97.2 94.5 95.9 97.5 100.1 102.6 89.2 76.5 76.5 77.7 78.0 78.7 91.6 92.9 97.5 100.0 78.7 78.6 78.7 78.9 86.8 78.7 78.7 78.7 78.7 78.7 78.7 78.7 <	1000	63.6	86.3			89.3		91.8	92.5	93.6	95.5	98.8	102.3			107.7	94.5	81.6	71.6	61.
79.0 81.4 33.5 83.4 84.8 86.7 87.3 88.3 90.2 93.6 97.2 98.5 100.1 102.6 89.2 76.5 75.4 73.4 80.9 80.8 81.7 82.1 84.0 84.6 85.6 87.4 90.9 94.6 95.9 97.5 100.0 86.4 73.7 73.6 75.0 70.1 77.9 78.8 79.2 81.0 81.0 84.5 87.9 91.6 92.9 97.5 100.0 86.4 73.7 73.6 75.0 77.7 78.0 77.7 78.0 77.7 78.0 77.7 78.0 77.7 78.0 77.7 78.0 77.7 78.0 77.7 78.0 77.7 78.0 84.5 86.1 87.5 89.6 77.7 78.6 67.2 80.9 84.6 86.1 87.5 89.6 77.7 67.0 67.2 67.0 77.7 74.3 75.2 77.7 76.9 84.6 86.1 87.5 89.6 77.7 78.9 59.2 54.5 50.2 67.4 67.2 68.0 68.5 69.9 70.0 70.9 73.0 76.7 80.5 82.0 83.3 85.2 71.4 59.2 54.7 54.8 57.2 59.4 59.1 59.8 60.2 61.8 61.8 61.8 62.5 64.4 68.5 72.3 77.7 78.9 80.8 66.9 54.7 59.8 57.7 59.4 59.1 59.8 57.7 57.7 58.9 61.8 57.3 77.2 63.4 43.0 46.3 43.6 50.7 50.2 51.0 51.0 53.3 53.4 54.1 55.3 59.9 63.6 65.2 66.9 69.0 55.4 43.0 41.3 43.6 45.7 45.1 45.9 45.1 45.9 42.0 53.7 51.1 38.5 51.1 33.5 51.1 40.1 39.5 41.3 39.9 42.9 42.9 42.1 42.9 49.6 53.6 53.6 59.9 69.0 59.4 46.5 33.7 51.1 39.5 41.3 39.9 42.9 42.9 42.1 42.9 43.1 55.3 59.9 63.6 59.9 59.9 65.9 59.4 46.5 33.7 50.0 59.7 71.3 73.3 59.5 41.5 50.2 51.1 39.5 41.3 39.9 42.9 42.1 42.9 42.0 53.2 54.8 56.9 59.4 46.5 33.7 51.1 39.5 51.1 39.5 51.1 57.7 51.0 51.0 51.0 51.0 51.0 51.0 51.0 51.0	1250	91.4				86.8		89.3	0.06	91.0	92.9	96.3				105.2	91.9	79.1	69.1	59.1
76.4 73.4 80.9 80.8 81.7 82.1 84.0 54.6 85.6 87.4 90.9 94.6 95.9 97.5 100.0 86.4 73.7 73.6 73.6 73.6 73.6 73.7 78.8 79.2 81.0 81.5 62.4 84.3 87.9 91.6 92.9 94.5 90.5 100.0 86.4 73.7 73.6 73.6 73.6 73.7 73.6 73.7 73.0 81.0 84.6 88.3 89.7 91.2 93.4 79.6 67.2 56.8 69.2 67.4 71.2 72.0 72.5 74.1 74.3 75.2 77.2 80.9 84.6 86.1 87.5 89.6 75.7 67.2 67.2 54.6 95.2 67.4 67.2 68.0 68.5 69.9 70.0 70.9 73.0 76.7 80.5 82.0 83.3 85.2 71.4 59.2 54.5 50.5 50.5 56.3 66.3 66.6 72.3 76.1 77.7 78.9 80.8 66.9 54.7 54.8 57.2 59.4 59.1 59.8 60.2 61.8 51.8 51.8 51.8 52.5 64.4 68.5 72.3 73.9 75.3 77.2 63.4 51.1 59.8 60.2 51.0 51.0 53.3 53.4 54.1 55.3 59.9 63.6 65.2 66.9 69.0 55.4 43.0 41.3 43.6 45.7 45.1 45.9 45.7 45.1 45.9 45.7 45.1 45.9 45.7 45.1 45.9 45.7 45.1 45.9 45.7 45.1 33.5 54.8 56.9 59.4 46.5 33.7 57.2 53.1 59.5 47.5 51.3 59.5 47.5 51.3 59.5 47.5 51.3 59.5 47.5 51.3 59.5 47.5 51.3 59.5 47.5 51.3 51.3 59.5 47.5 51.3 51.3 51.3 51.3 51.3 51.3 51.3 51	1500	19.0						86.7	87.3	88.3	90.5	93.6				102.6		76.5	66.5	56.
73.6 76.0 70.1 77.9 78.8 79.2 81.0 81.5 62.4 84.3 87.9 91.6 92.9 94.5 96.9 83.2 70.6 70.4 72.8 74.8 75.6 76.0 77.7 78.0 79.0 81.0 84.6 88.3 89.7 91.2 93.4 79.6 67.2 66.6 69.3 71.4 72.5 72.0 77.7 78.0 81.0 84.6 88.3 89.7 91.2 93.4 79.6 67.2 66.6 69.3 71.4 77.2 72.0 72.5 74.1 74.3 75.2 80.9 84.6 88.3 89.6 75.7 83.4 65.2 64.9 69.6 75.7 65.4 67.2 67.1 62.9 83.7 64.2 65.9 69.9 70.0 70.9 73.0 75.3 76.1 77.7 78.9 80.8 65.9 54.7 54.8 57.2 59.4 68.5 72.3 73.9 75.3 77.2 63.4 59.2 54.8 57.2 59.4 59.1 59.8 60.2 61.8 61.8 62.5 64.8 68.5 72.3 73.9 75.3 77.2 63.4 51.1 59.7 50.2 51.0 51.0 51.0 53.3 59.4 54.1 56.3 59.9 63.6 65.2 66.9 69.0 55.4 43.0 41.3 43.6 45.7 45.1 45.9 45.7 49.1 59.8 45.7 48.3 48.6 49.4 51.4 55.0 58.7 60.3 62.1 64.4 51.1 38.5 33.9 42.9 43.1 40.1 39.5 40.3 39.9 42.9 43.1 45.9 49.6 53.6 53.2 54.8 56.9 59.4 45.5 33.7 50.2 54.1 57.1 57.1 57.2 57.3 59.4 45.5 57.1 57.1 57.1 57.1 57.1 57.1 57.1 5	2000	70.4						0.40	9.49	85.6	87.4	90.9				100.0		73.7	63.7	53.
70.4 72.8 74.9 74.8 75.6 76.0 77.7 78.0 79.0 81.0 84.6 88.3 89.7 91.2 93.4 79.6 67.2 66.6 68.3 89.7 91.2 93.4 79.6 67.2 66.6 66.8 69.3 71.4 71.2 72.0 72.5 74.1 74.3 75.2 77.2 80.9 84.6 86.1 87.5 89.6 75.7 63.4 62.6 65.2 67.2 67.2 67.2 67.2 67.2 67.2 67.2 67	25.00	73.6						81.0	81.5	95.4	84.3	87.9		95.9		6.96		70.6	9.09	20.
66.6 69.3 71.4 71.2 72.0 72.5 74.1 74.3 75.2 77.2 80.9 84.6 86.1 87.5 89.6 75.7 63.4 62.8 65.2 67.4 67.2 68.0 68.5 69.9 70.0 70.9 73.0 76.7 80.5 82.0 83.3 85.2 71.4 59.2 54.5 61.3 62.5 65.5 65.5 66.3 68.6 72.3 76.1 77.7 78.9 80.8 66.9 54.7 54.8 57.2 59.4 59.1 59.8 60.2 61.8 61.8 62.5 64.4 68.5 72.3 73.9 75.3 77.2 63.4 51.1 51.1 55.2 54.9 55.6 55.8 57.7 57.7 58.5 60.7 64.4 68.1 69.7 71.3 73.3 59.5 47.2 46.3 48.6 50.7 50.2 51.0 51.0 51.0 53.4 54.1 56.3 59.9 63.6 65.2 66.9 69.0 55.4 43.0 41.3 43.6 45.7 45.1 45.9 45.7 48.3 48.6 49.4 51.4 55.0 58.7 60.3 62.1 64.4 51.1 38.5 33.7 42.1 40.1 39.5 40.3 39.9 42.9 43.3 34.1 40.1 39.5 40.3 39.9 42.9 43.3 34.1 40.1 39.5 40.3 32.3 44.1 55.0 58.7 59.8 56.9 59.4 46.5 33.7 50.2 50.2 50.3 50.4 40.5 33.7 50.2 50.3 50.4 40.5 33.7 50.2 50.3 50.3 50.4 40.5 33.7 50.2 50.3 50.4 40.5 33.7 50.2 50.3 50.4 40.5 33.7 50.2 50.3 50.3 50.4 40.5 33.7 50.2 50.3 50.4 40.5 33.7 50.2 50.4 40.5 33.7 50.2 50.3 50.4 40.5 33.7 50.2 50.4 40.5 33.7 50.2 50.4 40.5 33.7 50.2 50.4 40.5 33.7 50.2 50.4 40.5 33.7 50.2 50.4 40.5 33.7 50.2 50.4 40.5 33.7 50.2 50.4 40.5 33.7 50.2 50.4 40.5 30.2 50.4 40.5 50.2 50.2 50.2 50.4 40.5 50.2 50.2 50.4 40.2 50.2 50.4 40.2 50.2 50.4 40.2 50.2 50.4 40.2 50.2 50.4 40.2 50.2 50.4 40.2 50.2 50.2 5	3150	10.4						77.7	78.0	19.0	81.0	84.6		89.7		93.4		67.2	57.2	47.
62.8 65.2 67.4 67.2 68.0 68.5 69.9 70.0 70.9 73.0 76.7 80.5 82.0 83.3 85.2 71.4 59.2 54.5 64.5 81.0 70.3 70.0 70.9 73.0 76.7 80.5 82.0 83.3 85.2 71.4 59.2 54.5 54.5 61.3 61.3 77.7 78.9 80.8 66.9 54.7 54.8 57.2 59.4 59.1 59.8 60.2 61.8 61.8 62.5 64.8 68.5 72.3 75.9 75.3 77.2 63.4 51.1 51.7 51.2 53.4 51.1 55.2 59.9 57.2 57.7 58.5 60.7 60.7 50.2 51.0 51.0 51.0 51.0 51.0 51.0 51.0 51.0	4300	9 .99						74.1	74.3	75.2	77.2	80.9		86.1	10	89.6		63.4	53.4	43.
54.5 bl.9 bj.1 b2.9 bj.7 b4.2 b5.5 b6.3 bb.6 72.3 76.1 77.7 78.9 81.8 b6.9 54.7 54.8 bj.6 57.2 5j.4 5g.1 5j.8 bl.2 bj.8 bj.8 bj.9 57.3 72.3 73.9 75.3 77.2 bj.4 5j.1 5j.8 bj.7 5j.8 bj.8 bj.8 bj.7 bj.8 bj.7 bj.8 5j.8 5j.8 bj.8 bj.8 bj.8 bj.8 bj.8 bj.8 bj.8 b	5300	65.8						6.69	20.0	70.9	73.0	16.7	80.5	82.0	m	85.2		2.69	49.2	39
54.8 57.2 59.4 59.1 59.8 60.2 61.8 61.8 62.5 64.4 68.5 72.3 73.9 75.3 77.2 63.4 51.1 51.2 51.4 55.2 54.9 55.6 55.8 57.7 50.5 60.7 64.4 68.1 69.7 71.3 73.3 59.5 47.2 46.3 48.6 51.7 51.2 51.0 51.0 51.0 51.0 51.4 54.1 55.3 59.9 63.6 65.2 66.9 69.0 55.4 43.0 41.3 43.6 45.7 45.1 45.9 45.7 48.3 48.6 49.4 51.4 55.0 58.7 60.3 62.1 64.4 51.1 38.5 35.9 38.1 40.1 39.5 40.3 39.9 42.9 43.3 44.1 45.9 49.6 53.6 53.2 54.8 56.9 59.4 46.5 33.7 33.7 44.1 45.9 49.6 53.2 54.8 56.9 59.4 46.5 33.7	6300	59.5	00	63.1				65.5	65.5	66.3	9.89	72.3	76.1	71.7	•	80.8	6.99	24.7	44.7	34.
51.7 53.1 55.2 54.9 55.6 55.8 57.7 57.7 54.5 61.7 64.4 68.1 69.7 71.3 73.3 59.5 47.2 46.3 48.6 51.7 51.2 51.0 51.0 53.4 54.1 55.3 59.9 63.6 65.2 66.9 69.0 55.4 43.0 41.3 43.0 45.7 45.1 45.9 45.7 48.3 48.6 49.4 51.4 55.0 58.7 60.3 62.1 64.4 51.1 38.5 35.9 38.1 40.1 39.5 40.3 39.9 42.9 43.1 45.9 49.1 55.9 49.6 53.2 54.8 56.9 59.4 46.5 33.7	8000	24.8	57.	53.4	59.1			61.8	61.8	65.5	64.4	68.5	72.3	73.9	~	77.2	63.4	51.1	41.1	31.
46.3 48.6 50.7 50.2 51.0 51.0 51.0 53.4 54.1 56.3 59.9 63.6 65.2 66.9 69.0 55.4 43.0 41.3 43.0 41.3 43.0 41.3 43.0 41.3 43.0 41.3 43.0 41.3 41.3 41.3 41.3 41.3 41.3 41.3 41.3		6 1 2								2		7 7							**	
41.3 43.6 45.7 45.1 45.9 45.7 40.8 40.6 49.4 51.4 55.0 50.2 50.2 50.9 51.1 38.5 35.7 35.0 35.1 40.1 39.5 40.3 39.9 42.9 43.3 44.1 45.9 49.6 53.2 54.6 56.9 59.4 46.5 33.7 50.0 52.0 52.0 52.0 52.0 52.0 52.0 52.0	12500	200						57.2	52.4	2000	200	• 0	7 .00	66.7	66.0	200	55.0	7	37.0	22
35.9 38.1 40.1 39.5 40.3 39.9 42.9 43.3 44.1 45.9 49.6 53.2 54.8 56.9 59.4 46.5 33.7	16000	11.4						48.3	18.4	1 0 1	51.4	55.0	58.7	200	62.1	64.4	51.1	38.5	28.5	1 8
20 0 22 0 27 2 27 3 27 4 22 6 25 0 27 1 28 2 20 0 12 6 12 0 64 2 65 0 14 7 20 0	23.100	35.9						42.9	43.3	44.1	45.9	69.6	53.2	54.8	56.9	29.4	46.5	33.7	23.7	13.7
2002 10Th 10th 2016 2014 2016 2016 2016 2016 2016 2016 2016 2016	25000	29.9						25.0	27 1.	2 42	202					7.5		0		9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

	AS A	AS A FUNCTION OF		ANGLE A	AND DIS	DISTANCE	FROM S	SOURCE								TEST	TEST 76-578-001	8-001	
NOISE SOU	J75-P	SE SOURCE/SUBJECT: F-106 AIRCRAFT ENG. J75-P-17 GROUND RUNUP	_ F		OPER	OPERATIONS MILITAR SINGLE EST. F-	ENGINE	ATION: MILITARY POWER, F-106 SINGLE ENCINE, 100% RPH EST. F-105 +0.008	86 PH		HETEOROLOGY S TEMP BAR PRES REL HUMI	PRESS HUMID	= 59 = 29.92 = 70	L H N	9	PROFER	CRAFT	CODE	578 01004
DISTANCE	7	10	26	36	9	20	9	0,2	ANGL	1	00EGREES).	110	120	130	140	150	160 ,	>170	180
230	99.1		103.5	103.8	104.8	105.7	108.9			113.0	115.9 119.3	-	116.8	120.2		110.0		86.8	76.
315	94.9	98.5	99.3	-	100.6	103.5	106.8	108.0	0 0		113. 7			118.2		108.0	94.8	82.7	72.7
004	95.6			97.4	98.4	99.5	102.4				109.3	112.7		114.0		103.8		80.6	2
200	9006		95.0		96.2	96.9	100.1		~	104.1	107.0	110.4	110.2	111.9		101.6		78.5	68.
336	4.00	92.0	95.8	93.0	34.0	94.7	97.6	0.66			104.7	108.1		109.6	112.2	99.3		76.2	99
900	99.1	1.68	90.0	7.06	91.7	92.3	4.46	96.6	96.9	99.3	132.3	105.8		107.4	-	97.0	84.0	0.42	• • •
1000	83.8				89.3	89.9	93.0	94.1	93.6	96.8	9.66	103.3	103.4	105.1	107.7	94.5	9	71.6	61.
1250	81.4	85.0	85.9	85.9	86.8	87.4	90.5	91.5	91.0	94.2	97.3				105.2	91.9	19.1	69.1	59.1
1600	19.0				84.3	84.8	87.9	88.9	88.3	91.5	94.6		98.5	10001	102.6	89.2		66.5	56.
2000	16.4		84.9		81.7	82.1	85.2	86.1	85.0	88.7	91.9		6.56		100.0	86.4		63.7	53.
2500	73.6		78.1		78.8	79.2	82.2	83.0	82.4	95.6	88.9		95.9	94.	6.96	83.2	9	9.09	9009
3150	10.4		74.9		15.6	76.0	78.9	9.62	19.0	82.3	92.6		89.7		93.4	9.62	2	57.2	47.
0004	9.99		71.4		72.0	72.5	15.0	15.5	75.2	78.3	81.7		86.1	87.	9.68	15.7		53.4	43.
2000	65.8		4.70		68.0	68.5	70.7	71.0	6.02	73.8	77.3		82.0	83.	85.2	71.4	2	2.64	39
6300	58.5		63.1		63.7	540	66.0	66.2	66.3	69.1	72.7		7.77		80.8	6.99	1	44.7	34.
8000	54.8		29.4		8 6 6	60.5	62.0	62.1	65.5	65.1	68.7		73.9		77.2	63.4	51.1	41.1	31.
103.0	50.7	53.1	55.5		55.6	55.8	57.7	57.7	58.5	60.7	64.4	68.1	69.7	71.3	73.3	59.5	47.2	37.2	27.
12500	46.3		50.7		51.0	51.0	53.3	53.4	54.1	56.3	59.9	63.6	65.2	6.99	69.0	55.4	43.0	33.0	23.
16030	41.3			45.1	45.9	45.7	48.3	48.6	49.4	51.4	55.0	58.7	60.3	62.1	04.4	51.1	38.5	28.5	18.5
20002	35.9				40.3	39.9	42.9	43.3	44.1	6.54	40.6	53.2	54.8	56.9	59.4	46.5	33.7	23.7	13.
											2								

. SPL DATA MERE EXTRAPOLATED FOR THIS ANGLE.

	2	FEET) OMEGA	OMEGA 8.2 TEST 76-578-001	
NOISE SOURCE SOU	ISE SOURCE/SUBJECT! F-116 AIRCRAFT ENG. J75-P-17 GROUND RUNUP		OPERATIONS OPERATIONS SINGLE EST. F	TARY POWE LE ENGINE F-135 +8	ATION: MI_ITARY POWER, F-106 SINGLE ENGINE, 1302 RPH EST. F-135 +0.008	DEL	METEOROLOGY: TEMP BAR PRESS REL HUMID DELTA N =	= 59 F =29.92 IN = 70 %		AIRCRAFT OPERATION PROFILE VE PAGE J3	CODE CODE RSIO	578 01004
9			P=PNLT			A=AL		Ţ	T=ALT			
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>170			•	•	×	•	•				•	
×180				×		•				• • • • • • • • • • • • • • • • • • • •	•	
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. SPL DATA MERE EXTRAPOLATED FOR THIS ANGLE.

NOISE SOURCE/SUBJECT F-106 AIRCRAFT ENG. J75-P-17 GROUND RUNUP BAND CENTER FREQ (HZ) 0 50 90 63 91 100 97	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 3	0.00						METE			*****		-	TRCRA			
CENTER ((HZ) 50 63 86			Idvini	FTERBUR INGLE	CON: RBURNER POWE E ENGINE F-105(MIL)	x +	6.008	9	E A B E L T	MP R PRESS L HUMID	648 SS = 2 ID = 8.	59 9.92 70 0 08	FIN X		OPERATION PROFILE V 20 APR 76 PAGE C4	ш	CODE 5 CODE 0	578 01003 A
			30	2,	5.0	09	7 C AN	NGLE C	DEGRE 90	ES)	110	120	130	1,0	150	160 ,	>170 >	×180
			56	55	9.5	t		20	98	101	104	107	113	117		107	26	87
					96			0	101	105	108	110	117	120		108	98	88
								_	102	106	109	114	120	123		108	86	88
										109	112	115	122	126		106	96	96
102		101	102	100	102	104	105 1	106	9 6	1110	115	116	122	128	119	104	1 0	t t
101										112	116	119	123	123		100	90	80
96	66							0		110	114	116	123	123		66	89	4
26		102						6		113	116	118	122	127		100	90	80
66	102							0		115	118	120	123	126		66	83	29
101								σ,		114	118	119	120	123		96	86	92
90 c								0 1		112	115	118	120	122		96	36	9 2
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1250 90	93	90								106	111	113	112	114		88	182	99
	76							+		107	112	110	110	113		86	16	99
	91							+		108	110	111	110	112		98	94	99
25.00	95							9		111	112	169	105	109		83	73	63
	68							~		108	109	107	103	106		80	20	9
8	88							2		108	111	107	104	105		80	20	9
80	96							6		105	109	104	102	103		11	29	25
6300 79	84	9						80		104	108	103	101	101		52	65	22
7	95	* 0						1		102	105	101	100	66		14	49	24
10000	78	1						2		26	100	16	95	96		20	9	20
OVERALL 110	112	113	113	114	114	110 1	117 1	119	120	124	127	129	133	136	127	115	105	95

SOURCE/SU SOURCE/SU	121.5 1117.2 1117.6 1117.6 1117.6 1117.6 1117.6 1117.6 1117.6 1117.6 1117.6 1117.6 1117.6 1117.7 117.7	20 20 123.2 1 1118.9 1 114.4 1	Not son	0 PERA A A A A A A A A A A A A A A A A A A A	SATION: SINGLE ENGIN EST. F-105 (M EST. F-10	TINH I	# # HOONON	1 1 1	(DE (OE 134.2 132.4 125.) HETEOROLOGY SEMPRE BAR PRE REL HUM) DELTA N = 100 100 110 2 136.9 139. 2 136.9 139. 2 136.9 139. 3 137.5 135. 4 137.5 138. 4 125.2 128.	N R P P C C C C C C C C C C C C C C C C C	120 130 130 130 130	130 130 130 141 136 136	HG 140 1413 11413 11413 1137	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	N N 04 ERREAFT OFILE 160 1116.9 1112.6	COOE COOE RSION 170 170 16.90 06.90 06.90	92. 92.
(FEET) 200 119.3 250 117.2 315 115.0 400 115.0 500 110.5			200000	4 000000		~ 10 m @ 10 m m		13 0000	132 9 6 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	570246 0705	110 139. 137. 135.	120 139. 137. 134. 132.	130 130 141. 139. 136.	140 143. 141. 8 139. 5 137.	150 132. 130. 128.	160 119. 116. 1112.	100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	98.9
119.3 117.2 115.0 112.8 111.5			200000	600000		N 10 M M 10 M M			132.2 132.6 129.7 125.4 125.4	136.9 134.7 132.5 130.1 127.7	139. 135. 135. 130.	139. 137. 134. 132.	141. 139. 136.	143. 141. 8 139. 5 137.	132. 130. 128.	119. 116. 112.	109.0 106.9 104.8 102.6	96.99
117.2 115.0 112.8 111.5			20100			m m m m m			132.4 129.7 127.4 125.0	134.7 132.5 130.1 127.7	137. 135. 132.	137. 134. 132. 130.	139. 136.	141. 8 139. 5 137.	130. 128. 125.	116. 112. 110.	106.9 104.8 102.5 100.3	96.9
112.8			200			2000			127.4	130.1 130.1 127.7 125.2	132.	132.	134.	5 137.	125.	112.	102.5	92.
113.5			00	3.5		10 m m				127.7	130	130.			124	110	100.3	90.
108.1	m «		5	3.5		- 1		•		125.2	128.0		132.	+ 135.	163		97.0	
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800 105.7 10	,			1:1					119.8	122.5	125.3	125.	•		118.		99.6	84.
1000 103.1 10	105.3 1	107.0 1		108.4	1.9.0	12.5 1		G	116.9	119.7	122.5	123.	125.		115.9	103.2	93.0	82.
100.4			0	105.7	0	109.5 1	110.8	111.6	113.9	116.6	119.5	120.	3 122.	5 125.3	113.0	100	90.1	79.
91.6	-		1	102.8 1		136.2 1			110.6	113.4	116.0	117.	119.	122.	109.9	97.	87.1	76.4
64.5			9	1.66		.02.7 1	_		107.0	109.9		114.		119.	106.9	94.5	83.8	73.
2500 91.2 9	93.3		6	96.0	4.96		0		103.0	106.2		110.			103.2	90	19.9	69
87.3		91.1	3	92.1			-		98.6	102.1		106.	8 108.	111.	98.9	86.	75.5	64.
_	85.1		8	87.8	m		10		0.46	7.16		102.		107.	94.4	81.	70.9	60.
78.3			~	83.1			~		89.2	95.9		97.		102.	89.5	76.	66.0	54.
73.4			4	78.2			~		84.1	87.9		92.		97.	94.6	71.	60.09	64
9.69		ın		74.1	.0		~	78.0	86.1	83.9	97.	.68	91.0		81.1	67.9	2001	44.
13030 65.4 6	67.5	69.3		8 69	70.1	72.9	73.5	74.4	75.8	7.67	63.5		87.	80	77.	63.	52.3	33.
60.09				65.2	65.3	68.4	6.89	6.69	71.3	75.2	79.0		82.	85.	73.		47.3	32
55.9	57.9	59.8	59.1	60.1	6.65	63.4	64.4	6.49	66.3	79.3	74.2	75.9	78.	2 81.0	68.8	54.	41.4	25.
50.3				54.4	53.8	57.8	29.4	59.4	66.9	6.49	68.9		73.	76.	64.	48.	34.8	14.7
43.8	6.94	48.0		48.1	47.1	51.6	55.5	53.2	54.7	58.9	63.0		68.	71.		42.	24.5	*

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

NOISE SOURCE/SUBJECT:		-	10		AND DIS	DISTANCE	FROM S	SOURCE) TEST	GA 8.2 T 76-578-	78-001	
GROUN	ACE SU J75-P- D RUNU	SE SOURCE/SUBJECT: F-106 AIRCRAFT ENG. J75-P-17 GROUND RUNUP			OPER	AFTERBUSINGLE	AATION: AFFERBURNER POME SINGLE ENGINE EST. F-105(MIL)	POWER, F	F-106	2222	METEOROL TEMP BAR BAR REL DELTA N	PRES HUMI	S = 29.92 0 = 70 8.0 08	L H X	÷	PROFILE PAGE	AIRCRAFT OPERATION PROFILE VEI PAGE E4	CODE	578 01003
DISTANCE (FEET)	,	10	20	36	9,	50	9	0.2	ANGL 80	111	(DEGREES) 90 100	110	120	130	140	150	160	>170	180
250	119.3	122.6	123.2	124.2	125.5	126.4		132.6	131.8	135.5		140.8	139.2	141.1	143.7	132.3	119.0	109.0	98.9
	115.0	114.3		119	120.9	122.2	126.5	128.2		131.1	133	136.3		136.8	139.5			104.8	9.46
	117.8	116.1		117.	118.5	119.8		125.8	-	128.7	131.	133.9	132.6	134.6	137.3	6	9	102.6	92.3
		113.0		115.	116.0	117.3	_	123.4	.0	126.3		131.5	130.3	132.4	135.1		m	100.3	90.0
920	108.1	1110	112.0	112.	113.5	114.6	119.2	118.2	- 1	123.7	126.	129.0	128.0	150.1	132.8	121.2	108.0	97.9	87.4
	103.1			167.	103.4	109.0	113.7			118.2		123.5	123.0	125.2	128.0	115.9	m	93.0	82.2
		103.7			105.7		110.7		.0	115.2	117.	120.5	120.3	122.5	125.3	113.0	100.4	90.1	19.4
1600	91.6	100.8	-	101	102.8	103.1				1111.9	114.	117.0	117.5	119.8	155.6	109.9	97.5	87.1	16.4
5000	94.5	37.8	98.5	98.	99.7				•	108.3	110.	114.5	114.	116.8	119.6	106.9	64.5	83.8	73.3
2530	91.2	4.46	95.0	94.	90.0				-	104.3	107.	110.7		113.1	115.9	103.2	90.5	19.9	69.3
3150	67.3	90.5	91.1	91.	92.1	92.	96.4	81.5		6.66	103.1	106.8	106.	108.9	111.8	98.9	86.1	15.5	6.49
9004	95.8	86.0		86.	87.8		91.8	92.7	2	95.0	98.	195.1		104.2	107.0	4.46	81.4	70.9	60.0
5000	78.3	81.0		82.	83.1	83.	86.8	87.6	1	6.69	93.	97.2	97.	98.6	102.1	89.5	9.92	66.0	54.8
6300	73.4	75.0	77.6	77.	78.2	78.	81.0	82.3	9	9+49	88.	92.0	95.	2.46	97.3	84.6	71.6	60.8	49.2
8000	9.69	71.8	73.5	73.	7 4.1	74.	17.4	78.0	9	80.4	84.	87.9	89.1	91.0	93.6	81.1	6.79	299	4.4.4
10000	65.4	67.5	69.3	68.	69.8	70.	72.9	73.5	74.47	75.8	79.	83.5	85.0	87.0	89.7	77.3	63.8	52.3	38.7
12500	6000	63.0		94.	65.2	65.	68.4	68.8	6.69	71.3	75.2	79.0	80.7	85.8	85.5	73.2	59.3	47.3	32.2
16000	6.55	57.9		99.	60.1	59.	63.4	0.49	6.49	66.3	70.	74.2	75.9	78.2	81.0	68.89	24.4	41.4	25.0
20000	50.3	52.4	24.5	53.4	24.4	53.8	57.8	58.4	59.4	60.9	94.	69.9	7.07	73.3	76.4	64.0	48.9	34.8	14.7
25000	. 7 0																		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

			20 10		200 200 000		, , ,	1000								OMEGA	OMEGA 8.2		
NOISE SO F-10 ENG. GROU	URCE/S 6 J75-P	E/SUBJECT & AIRCRAF S-P-17 RUNUP	5		OPER	OPERATION: AFTERBURNER BINGLE ENGINE	URNER POWER	ONER ILL	. F-106 8.008	2000	METEOROLOGY TEMP BAR PREI REL HUM	PRESS HUMID	=29.	59 F 92 IN HG 70 %	g	PROPERCY PRO	ATION FE VE	ODE	578 01003
(DISTANCE	9	10	2.0	30	3	50	00	7.0	ANGL 80	98	(DEGREES) 90 100	1 3	7	130	140	150		*170	180
250	107.6	109.4	111.4	1111	112.7	113.6	115.6	116.5	to a	119.6	122.8	126.1		128.1		0 0		1.46	82.7
315	102.8		107.2		108.	109.3	111.3	112.1	113.2	115.2	118.4		122.5				100.6	9.06	80.
200	98.5		102.9	103	104	104.8	106.8	107.6	-	110.7	113.9				- m			86.4	76
9 00 0	94.6	96.5		98.	99.	100.5	104.5	102.9	20	105.9	111.6	90				N m	-	81.9	71.9
1000	91.7	94.2	96.2				7.66	10004	10	163.4	~	110.2	1111.3	113.0	115.6	4.20	L	79.5	69.5
1250	84.3		93.8	93.8	2.46	95.3	97.2	97.9		100.8	104.2	107.7	108.9		113.1	8.66		77.0	67.0
2000	84.3	80.7	88.8				91.9	92.5	93.5	95.3	98.8	102.5	103.8	105.4	107.9	94.3	* 0	71.6	61.6
2500	81.5						88.9	4.68	m	92.2	95.8	99.5	100.8		104.8	91.1	2	68.5	58.
3150	78.3						85.0	85.9	m -	88.9	92.5	96.2	91.6	_	101.3	87.5		65.1	55
2000	73.7		75.3				77.8	77.9	4 00	80.9	84.6	88.4	89.9		93.1	79.3	o +	57.1	1,
6300	4.00		71.0				73.4	73.4	~	76.5	30.2	84.0	85.6	-	88.7	74.8	9	52.6	42.
8000	62.7	65.1	67.3				2.69	69.7		72.7	16.4	80.2	81.8	~	85.1	71.3		0.64	39.
10000	54.6	61.0	63.1			63.7	9.69	65.6	4.99	68.6	72.3	76.0	17.6	79.2	81.2	67.4	55.1	45.1	35.
12500	2 ** 5				58.	58.9	61.2	61.3	05.0	2.40	67.8	71.5	73.1	24.8	6.92	63.3	6.05	6.04	30.
16000	49.5				53.	53.0	56.2	56.5	57.3	59.3	65.6	999	68.2	70.0	72.3	29.0	46.4	36.4	56.
20000	43.8	46.0	48.0	47.4	48.2	47.8	50.8	51.2	52.0	53.8	51.5	61.1	62.7	64.9	67.3	24.4	41.6	31.6	21.6
25002	17 X						4		, ,							,			4

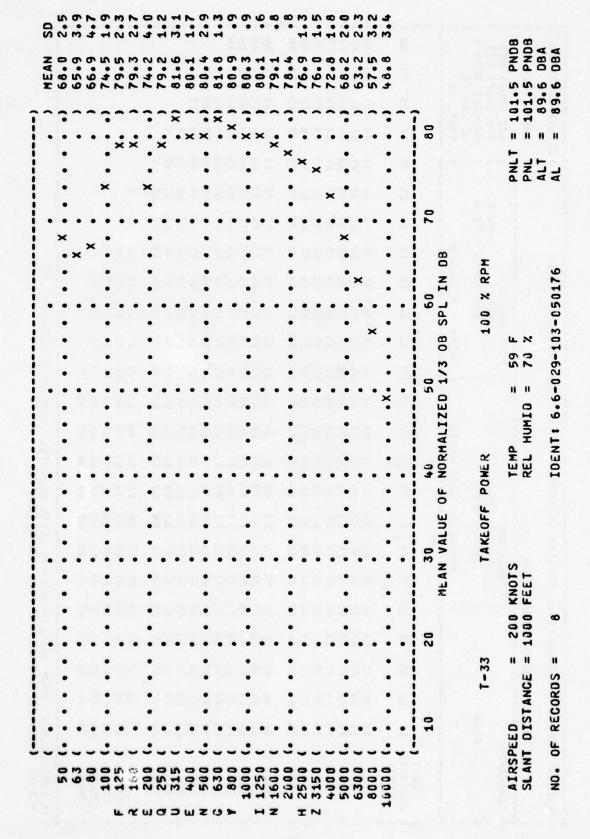
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

ļ	AS A F	A FUNCTION OF		ANGLE A	Q	DISTANCE	FROM S	SOURCE) TEST		76-578-001	
OISE F	SCE/SU J75-P-	SOURCE/SUBJECT: 186 AIRCRAF 16. J75-P-17	F		OPER	OPERATION: AFTERBURNER SINGLE ENGIN EST. F-105(M	ENGIN ENGIN	lul lul	R, F-100 +8.008		METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	OLOGY: MP RPRESS L HUMID	=29.	59 F 92 IN 70 %	9	PAGE	AIRCRATT CODE OPERATION CODE PROFILE VERSION 20 APR 76 PAGE 64		978 01003
DISTANCE (FEET)	•	10	20	30	0,	5.0	6.9	7.0	ANGL	98	EGREES)	110	120	130	140	150	160	>170	180
	107.0	110.6	111.4	111.7	112.7	113.6	116.8	118.0	5	120.9	123.8	127.2	126.7	128.1	130.6	117.9	104.7	1.46	84.7
	104.9					111.4	114.7	115.9		118.8	121.6	125.0			128.	115.9	102.7	92.7	82.7
	102.8			107.5	108.5	109.3	112.5	113.7	~	116.6		122.8				113.8	100.6	9006	80.6
	100.7				100.3	107.1	110.3	111.5	6	114.3	117.	120.6		121.	154.4	1111.7	98.5	88.5	78.5
200	98.5				104.1	104.8	108.0	103.2	~	112.0	114.9	118.3		119.	122.3	109.5	96.4	86.4	76.4
930	90.3	6.66	100.7	100.0	101.9	102.0	105.7	106.9	136.3	109.0	112.6	116.0	115.9	117.5	120.1	107.2	94.1	84.1	74.1
			200	0.00	23.0	7.001			-	70101	7.011	1100		112	111.03	6.407	6 • 16	6.10	•
1000	91.7	95.3	96.2	96.3	97.2	97.8	100.9	102.0	101.	104.7	107.7	111.2	111.3	113.0	115.6	102.4	89.5	79.5	69.5
1250	89.3	95.9	93.8		1.46	95.3	98.4	4.66		102.1				110.5	113.1		87.0	77.0	67.0
16.00	86.9	90.4	91.4		92.2	92.1	95.8	95.8	96	4.66				108.0	110.5	97.	84.4	74.4	4.49
2900	84.3	87.9	88.8		89.6	0.06	93.1	94.6	93.	9096				105.4	107.9		81.6	71.6	61.6
2500	81.5	82.0	86.1		86.7	87.1	90.1	90.9	90.	93.5				102.4	104.8	91.	78.5	68.5	58.5
3150	78.3	81.8	85.8		83.5	83.9	86.8	87.5	86.	90.2				99.1	101.3		75.1	65.1	55.1
000+	1 ** 1	78.1	79.3		19.9	90.4	85.9	83.4	63.	86.2				95.4	97.5	83.	71.3	61.3	51.3
2000	70.7	73.8	75.3	75.1	15.9	16.4	18.6	78.9		81.7	85.2		89.9	91.2	93.1	79.	67.1	57.1	47.1
6300	900	69.3	71.0		71.6	72.1	73.9	74.1	74.	77.0		94.		86.8	88.7		9.29	52.6	45.6
9300	62.7	65.3	67.3	67.0	67.7	68.1	6.69	70.0	70.4	73.0	16.6	80.4		83.2	85.1	71.3	29.0	0.64	39.0
10030	58.6	61.0	63.1	62.8	6.3.5	63.7	65.6	65.6	4	68.6	72.3	76.		79.	81.	67.4	55.1	45.1	35.1
12500	54.5	56.5	58.6	58.1	58.9	58.9	61.2	61.3	62.0	64.2	67.8	71.5	73.1		76.9	63.3	50.9	6.04	30.9
15000	49.2	51.5	53.0	53.0	53.8	53.0	56.2	56.5	57.3	59.3	65.9	.99		70.	72.	59.0	46.4	36.4	26.4
20000	43.8	46.0	48.0		48.2	47.8	50.8	51.2	52.0	53.8	57.5	61.		94.	67.	54.4	41.6	31.6	21.6
25000	37.8	39.9	41.8		45.0	41.5	44.8	45.3	7.94	47.8	51.5	55.		59.	61.	49.6	36.7	26.7	16.7

NOISE S Fr. 1 ENG GRO	10	DISTANCE =	250 FEET	_											TE	4	5-578-	100
	300RCE	/SUBJ AIR -P-17 UNUP		0 PER	OPERATION: AFTERBURNER POWER, SINGLE ENGINE EST. F-105(MIL) +8.	RNER PENGINE		0		METEOROLOGY: TEMP BAR PRES REL HUMI	000	S = 29.92 0 = 70 8.0 UB	F1 X N X D H		PAGE PAGE	KUN 04 ARCRATICODE 5 OPERATION CODE 0 PROFILE VERSION 20 APR 76 PAGE J4	N CO	DE 578 DE 01003 ION A
				P=PNLT	5			A=AL					T=ALT	-				
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. SPL DATA MERE EXTRAPOLATED FOR THIS ANGLE.

AIRCRAFT T-33												AIRCRAFT T-33
AIRC											× 0	AIRC
1-33					PAGE	. 315-323 . 324-332 . 333-341	ől	RAFT	, SELT, EPNL)		8 0 8 8 8 9 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1-33
AIRCRAFT	GROUND BY	AIRCRAFT	OPERATIONS	MENTS 029 AEGA 6.6			THE FOLLOWING DATA ARE PROVIDED:	ANCE FROM AIRC	PNL, PNLT, SEL, PNL, PNLT, SEL,		40 80 81 81	AIRCRAFT
1-33	NOISE PRODUCED ON THE GROUND BY		DURING FLIGHT OPER	FLYOVER HEASUREMENTS AIRCRATI CODE: 029 PROFILE VERSIONE A COMPUTER PROGRAM OMEGA			FOLLOWING DA	AT PNLM F SLANT DISTA N SPECTRA	i, i,	05 JAN 76	L A I R E S E	1-33
AIRCRAFT	NOISE PRO	1-33	DURING	FLYOVER AIRCRAFI PROFILE COMPUTER F		тем	EACH POWER SETTING, THE 1	NORMALIZED MEAN SPL SPECTRUM AT PNLM NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT AIR-TO-GROUND PROPAGATION SOUND PRESSURE LEVEL SPECTRA	SINGLE EVENT MEASURES (AL, ALT, GROUND-TO-GROUND PROPAGATION SOUND PRESSURE LEVEL SPECTRA SINGLE EVENT MEASURES (AL, ALT,		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AIRCRAFT
1-33					POWER SETTING	TAKEOFF 100% RPM CRUISE 90% RPM . APPROACH 80% RPM	FOR EACH POWE	NORMALIZED MEANOISE LEVELS AAR-TO-GR	SINGLA GROUND-TO- SOUND SINGLA		I G O H O H O H O H O H O H O H O H O H O	1-33
AIRCRAFT					ŭ.	HOA	딦	ZZ			4 2 M K	AIRCRAFT
112												1-33



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	AIR-	T0-6	AIR-TO-GROUND	PR	OPAG	ATIO	z													- 7	OMEGA	9 V	9.
A IRCRAFT :	1-33					OPER.	AKEOFF 100 %		POWER RPM = 200	N O N	SI		£ 0	TETEOROLOGY I	ROLO TEN REL	- E :	= CI	59	L X	1	A/C OPS PROF 05 J	CODE CODE ILE	1 02 1 10 VER:
SLANT DISTANCE (FEET)	17	18	19	20	22	22			52	FRE 26	QUENC	1 8 8 8 1 1 8 8 8 1 1 1 1 1 1 1 1 1 1 1	AND 29	30 30	1 4	1	: 2	* m	35	36		38	39
	6	0	2	0	70	70	9		96	90	90	0.7		90	9	u	40	70	70	6	0	87	98
250	8 0	28	10	87	100	6	9 0		0 0	200	200	90		2 6	2 6	2 6	200	6	6	. 4	87	85	0 K
315	78	29	11	95	90	89	40	68	92	91	91	95	95	91	91	91	91	90	90	88	84	82	80
004	16	17	75	83	88	87	82		06	89	89	06		89	89	89	88	87	87	85	82	13	77
500	14	72	73	81	98	85	9		88	98	18	88		87	87	86	98	85	85	83	19	92	73
630	72	20	7.1	62	84	83	78		98	84	85	98		85	85	48	84	82	82	80	92	72	89
800	20	99	69	92	85	81	92		94	85	83	94		83	82	82	81	8.0	13	92	72	68	63
1000	89	99	29	14	62	62	12		82	80	80	82	81	96	8.0	4	7.8	77	92			63	25
1250	99	9	9	72	77	11	72		62	18	28	80	62	7.8	78	92	92	14	73			58	51
1600	49	62	63	20	15	22	20		11	92	10	11	92	15	15	14	73	7.1	69			55	43
2000	62	09	61	68	73	73	68	73	75	74	14	22	47	73	72	7.1	69	29	65	29	53	44	33
2500	9	28	66	99	7.1	7.1	99		73	7.1	71	72	7.1	10	69	29	99	63	60			36	27
3150	28	96	25	49	69	69	49		7.1	69	69	20	68	29	99	49	62	28	24			52	~
000+	96	24	25	62	29	29	61		89	99	99	29	65	49	63	9	25	53	84			13	
5000	24	25	55	99	65	10	69		99	49	63	49	62	09	29	52	55	14	40				
6300	52	64	20	58	63	9	25		63	61	09	61	29	25	24	20	94	0+	31		t		
8000	20	147	48	25	09	09	24		6.0	28	25	25	22	25	64	‡ ‡	39	31	20	8			
10000	47	45	94	53	58	25	55		58	55	24	53	20	47	4	37	31	21	~				
12500	45	43	44	51	25	95	64		24	51	20	64	45	41	37	53	21	80					
16000	43	41	41	4 8	53	55	94		51	24	45	*	39	34	28	10	0						
20000	41	38	39	46	20	64	43	94	47	43	04	38	33	56	51	ω							
25000	38	36	36	27	47	94	20		2 7	3.0	35	7.4	20										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS:
* BAND WHICH DETERMINES THE TONE CORRECTION (C).

	AIR-TO-GROUND PROP	AGATI						OMEGA 6.6
AIRCRAFT: T-33		(OPERATIONS (TAKEOFF (100 %	POWER RPM	^^^	METEOROLOGY TEMP REL H	MID =	59 F)	C CODE S CODE OFILE
		(AIRSPEED	D = 200 KNOTS	115	DELTA N =	0.0 08		US JAN 76 PAGE I1
SLANT DISTANGE	AL	ALT**	PNL	PNLT**		SEL	SELT**	EPNL **
(FEET)	(08A)	(DBA)	(PN 08)	(PN0B)		(08)	(00)	(EPNDB)
240	105.7	105.7	119.0	119.0		104.7	TU.	109.0
250	103.6	103.6	116.8	116.8		103.5	3	107.8
315	101.4	101.4	114.5	114.5		102.3	m	106.5
004	99.1	99.1	112.1	112.1		101.1	7	105.1
200	96.8	96.8	109.6	119.6		99.8	100.6	103.6
630	94.5	34.5	107.0	107.0		98.5	or .	102.0
900	92.1	92.1	104.3	104.3		97.1	_	100.3
1000	89.6	89.6	101.5	101.5		95.6	4.96	98.5
1250	87.0	87.0	98.5	98.5		0.46	94.8	96.5
1600	84.4	84.4	95.5	95.5		95.4	93.2	94.5
2006	81.7	81.7	92.3	92.3		9006	91.4	92.3
2500	78.8	78.8	88.9	88.9		88.8	89.6	89.9
3150	15.9	75.9	85.4	85.4		86.8	87.6	87.4
0007	72.8	72.8	82.0	82.0		84.8	85.4	84.9
5000	69.5	69.5	78.6	78.6		82.5	83.0	62.3
6300	66.2	66.2	75.1	75.1		80.1	80.5	
8000	62.6	62.6	71.4	71.4		17.6	77.7	16.8
10000	58.9	58.9	67.6	67.6		3	74.8	73.8
12500	6.45	54.9	63.5	63.5		-	71.9	7.07
16000	50.8	50.8	59.1	59.1		8	68.7	4.79
20000	46.4	46.4	24.4	54.4		65.4	65.4	63.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

250 (1-33	Ī		F POWER	~				•		•	*				×
315 (AIRSPEED = TEMP = 59	EED = 2	200 KNOT	KNOTS REL HUMID	= 70	×	٠		•		×.			*		
000	NO. OF R	RECORDS:	0S1 8	050176	4						×			× .		
500 0					•	•	•	:	•	:	x.	:	:	×	•	
630 (•				•				•	×			×	35		
800 (•	•			•		•		•	*	•	×				
1000		:	:			•	•			:	× .	•	:		•	
1250 (•		•		•		· ×		×					
1600 (•			•		•	×	•	×	A5 0- 1					
2000 (:	:			•	•	• •	:	×	•	:	•		•	
2500 (•	•		•		×		×		•					
3150 (•			•	×		×	•							
0000			5 10		•	×		×	•		•			1000		
2000 (•	:	•	×	•	×	•	:		•	•	:		•	
6300 (×	•	×	•		•		•					
8000			•	×	×.		•		•		•					
100001	:		*.	•	· · ×	:	•		:	:	•		• •		• 5	
12500 (· ×	×	•		٠		•			A	- 11 1	PNLT	2	
16000 (×	×		•		•		•				1 11 11	ALT P		
20000 (× .	× .	:	•		•	•		•		•	•			•	
25000 (-	X	X-											1		:	

15 (TEMP = 59 F REL HUMID = 70 % 00 (NO. OF RECORDS! 8 10ENT! 6.6-029-103-050176-A 00 (TEMP = 59 F REL HUMID = 70 DELTA N = 0.0 DB NO. OF RECORDS: 8 IDENT: 6.6-029-103-050176-A	F REL HUMID = 70 = 0.0 0B CORDS: 8 6-029-103-050176-A	TEMP = 59 F REL HUMID = 70 DELTA N = 0.0 DB NO. OF RECORDS: 8 IDENT: 6.6-029-103-050176-A	TEMP = 59 F REL HUMID = 70 X DELTA N = 0.0 08 NO. OF RECORDS! 8 IDENT! 6.6-029-103-050176-A	DELTA N = 0.0 DB NO. OF RECORDS: 8 10ENT: 0.6-029-103-050176-A 10ENT: 0.7 DELTA N = 0.0 DB NO. OF RECORDS: 8 10ENT: 0.7 DELTA N = 0.0 DB NO. OF RECORDS: 8 10ENT: 0.7 DELTA N = 0.0 DB NO. OF RECORDS: 8 10ENT: 0.7 DELTA N = 0.0 DB NO. OF RECORDS: 8 10ENT: 0.7 DELTA N = 0.0 DB NO. OF RECORDS: 8 10ENT: 0.7 DELTA N = 0.0 DB NO. OF RECORDS: 8 10ENT: 0.7 DELTA N = 0.0 DB NO. OF RECORDS: 8 10ENT: 0.7 DELTA N = 0.0 DB NO. OF RECORDS: 8 10ENT: 0.7 DELTA N = 0.0 DB NO. OF RECORDS: 8 10ENT: 0.7 DELTA N = 0.0 DB NO. OF RECORDS: 8 10ENT: 0.7 DELTA N = 0.0 DB NO. OF RECORDS: 8 10ENT: 0.7 DELTA N = 0.0 DB NO. OF RECORDS: 9 10ENT:	DELTA N = 0.0 DB NO. OF RECORDS: 8 10ENT: b.6-029-103-050176-A
10ENT: 0.6-029-103-050176-	10ENT: 6.6-029-103-050176-	10ENT: 6.6-029-103-050176-	10ENT: 6.6-029-103-050176-	10ENT: 6.6-029-103-050176-A	10ENT: 6.6-029-103-050176-A 10ENT: 6.6-029-103-050176-A 10ENT: 6.6-029-103-050176-A 10ENT: 6.6-029-103-050176-A	10ENT: 6.6-029-103-050176-A 10
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				EX.	EX EX EX	
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EX	EX	EX				

E W	T-ON	GROUND-TO-GROUND	ONNO	0																-			
1 2 2		-		Y.	OPAGA	AGATION			*											OMEGA	A 6.	9	
					PER	000		T E				E S	TEOR	E P E L	. IN	"" 6	59 F 70 %			A/C OPS PROF	SODE TILE	1 02 1 10 VER:	OM
				-		5 1				2			7			8				2 1	1		
•	18	19	20	22	22	23	54	52	FREQ 26	QUENCY 27 26	7 BA	200	NUMBE 30	37	32	8	45	35	36	31	80	39	5
•	36	76	84	89	89	8.3			96		25		-	91	06		68	89	88	4		_	~
-	73	74	82	87	8	. 4			8 8		80			4 4			7 4	7 8	9 9				
315 73	2	72	96	92	48	52	4 6	87	98	86	87	87	98	86	9 9	98	85	85	83.0	262	22	22	. ~
7	69	20	18		82	11			84		95			84	84	m	82	82	80	2		2	9
9	29	68	91	80	80	15			81		83		2	82	81	-	80	80	7.8	t		80	9
9	69	90	14	18	77	72			62		81		0	80	62	6	11	77	.51			m	2
•	63	49	11	15	12	69			22		62		80	11	11	9	15	1.4	11	2			51
	61	9	89		72	99		764	52	75	22		2		+	73	72	7.1	5.8	m		2	3
1250 61	29	66	69	69	89	63	69	73	73	73	75	14	73	73	7.1	7.1	69	89	79	66	53 4	94	35
	26	96	62	99	9	60		20	11	71	72				6	58	99	49	66	t		80	2
	25	25	28	62	61	96		29	69	69	20		80		9	75	95	9	24	8		80	=
	48	48	24		25	55		63	65	99	29		2		2	51	58	55	8 4	-		9	
	*	£4	64	53	25	47		58	61	63	69		2		6	25	53	64	41	t	20	2	
	39	38	43		46	41		53	96	66	61		6		2	25	84	43	33	4	80		
	34	33	38		41	36		14	51	55	25		5		0	24	+5	35	23	13			
	53	28	34	38	37	31		41	45	20	53		2		2	1+	35	56	11				
	27	56	31	35	34	53		38	745	14	64		2		6	34	97	15					
2	52	54	53		32				39	1 1	45		42	80	2		16	2					
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2	21	19	54		56				31	35	36		59	8	14								
20000 23	18	17	22	52	23	11	21	52	27	30	30	27	21	14									
2	16	14	19		20				22	25	23		12	2									

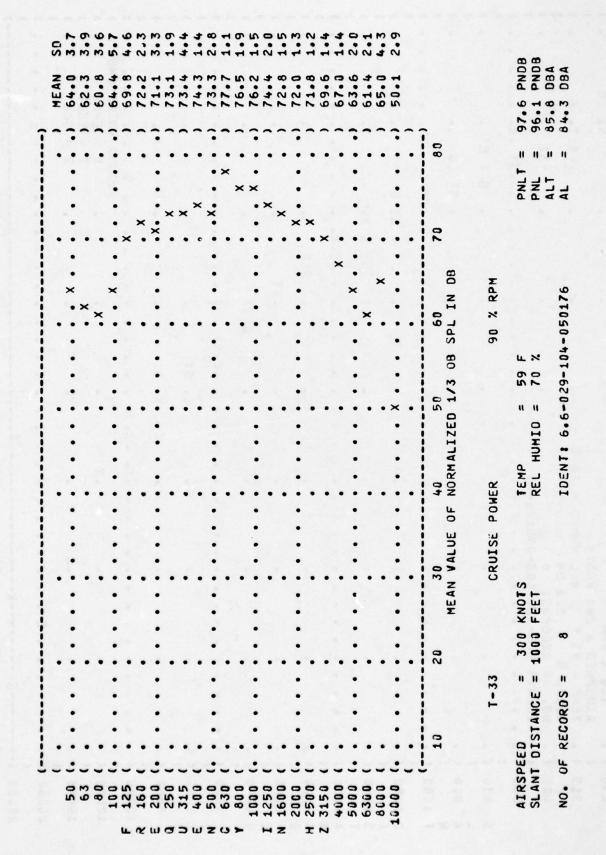
* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

* BAND WHICH DETERMINES THE TONE CORRECTION (C).

GROUND-1	GROUND-TO-GROUND P	ROPAGATION					OMEGA 6.6
AIRCRAFT:		(OPERATIONS	POWER		METEOROLOGY:	# 59 F	
-33		IUU X (AIRSPEE))	DELTAN = 0.0 0	9 8	PROFILE VERS 05 JAN 76 PAGE M1
SLANT DISTANCE	AL	AL T**	PNL	PNLT**	SEL	C SELT**	EPNL **
			100111	100111			2004.71
200	100.7	101.2	114.0	114.5	•66	4	104.5
250	98.6	99.1	111.8	112.3	. 80	10	103.3
315	7.96	6.96	109.4	109.9	97.	.	101.9
	94.1	94.0	104.5	105.1	-106	97.4	99.1
630	89.5	90.0	101.9	102.4	93.		97.6
900	87.0	9.78	99.1	9.66	92•		9*46
1000	84.5	85.1	96.1	96.6	•06	5	
1250	81.9	82.5	93.0	93.5	88.	6	
1600	79.2	79.7	89.7	90.5	87.	2	
2000	76.4	6.92	86.3	86.8	85.	*	
2500	73.4	73.9	82.5	83.0	83.	8 5	
3150	70.2	7.07	78.3	78.8	81.	1 82.4	80.8
4000	9.99	67.0	14.0	74.4	78.	2	
5000	65.5	62.8	69.5	69.5	75.	5 7	
6300		58.3	64.1	64.3	72.	1 7	
8000	53.9	54.0	2.65	59.8	. 69	9	•
10000	4.64	4.64	6.45	6.46	65•		61.1
12500	44.5	44.5	49.3	49.3	61.	.+	56.5
16006	39.1	39.1	45.7	42.7	57.	0	6.05
20000			35.2	35.2	52.	1 52.1	44.5
00000	, ,,	, ,,,	1 10	4 36	3 7		22.0

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

OHNHAZOM HZ MMMH



	AIR-	10-6	AIR-TO-GROUND	ID PR	9	AGATION	z														OMEGA		9.9	
AIRCRAFT	1-33					OPER	RATIONS CRUISE 90 %	IN E POWER	PAR				2000	i W	TEOROLOGY I TEMP REL HU	GY: PHUMI	" OI	59	4.%	î	A/C OPS PROF	8823	1 02 VER:	29 04 1 A
						đ	IRSPE	EED	= 30	0	KNOTS			ELTA	z	0	0 08				PAG	H2	٥	
SLANT DISTANGE (FEET)	17	18	19	20	12	22	23	24	25	FRE 26	QUEN 27	NCY B	AND 29	NUMB	31 31	32	33	34	35	36	37	38	39	0+
200	7.8	76	22	19	84	98	85			89	88	95		91	9.0	89	88	68	88	87	85	98	76	86
250	16	7.	73	11	82	84	83			87	98	90		89	88	87	98	87	98	85	82	83	91	82
315	14	72	17	75	80	85	81	83	84	85	84	88	87	87	98	84	94	85	83	82	80	80	88	7
004	72	20	69	73	7.8	80	79			83	82	86		85	84	82	82	82	91	80	11	11	84	7
200	7.0	68	29	20	92	78	22			81	80	94		83	81	8.0	80	80	78	11	14	14	80	2
630	68	99	65	68	14	92	15			13	78	82		81	49	18	11	11	16	42	7.1	20	92	9
800	99	49	63	99	72	7.4	73			92	75	80		79	11	12	12	12	73	11	29	99	7.1	2
1000	49	62	61	49	7.0	72	7.1	73	73	14	73	78	92	92	14	73	72	72	7.0	29	49	61	65	50
1250	62	9	29	62	68	70	69	7.1	7.1	72	7.1	75	14	14	72	20	69	69	99	63	29	26	58	41
1600	09	58	25	9	99	68	29	69	69	20	69	73	72	7.1	69	29	99	69	62	29	24	20	20	30
2000	28	96	52	58	19	99	69	29	29	99	29	7.1	69	69	29	49	63	62	58	53	64	43	41	17
2500	96	24	53	96	61	79	63	65	69	69	49	68	29	99	49	61	29	58	53	48	745	34	53	-
3150	24	25	51	24	66	62	9	62	62	63	62	99	49	63	09	28	52	53	84	41	34	54	15	
0004	25	56	48	55	25	65	58	09	60	61	29	63	61	9	25	24	51	48	41	32	52	11		
2000	20	48	46	20	55	25	99	58	28	28	96	09	58	96	53	64	94	45	34	22	13			
6330	48	94	11	48	53	22	24	52	23	52	53	25	24	25	64	t	40	34	52	11				
8000	45	†	45	45	51	53	51	53	25	25	20	53	20	48	1 1	38	33	56	1,4					
10000	P#	45	9	43	8 4	20	64	20	64	64	14	64	94	43	38		52	16	-					
12500	41	39	38	41	94	47	46	14	94	94	43	45	41	37	31	23	15	M						
16000	39	37	35	38	43	45	43	11	43	45	38	0 4	35	30	23	13	m							
20000	37	35	33	36	40	42	04	0 +	39	37	33	34	28	22	13									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8 * BAND WHICH DETERMINES THE TONE CORRECTION (C).

SLANT DISTANCE AL ALT** (PREMITON! (CRUISE POWER (P	00 KNOTS NL 108) (METEOROLOGY: TEMP = 59 F REL HUMID = 70 % DELTA N = 0.0 DB SEL S (DB) 96.9 94.3 93.0	SELT**	A/C CODE: 029 OPS CODE: 104 PROFILE VER: A D5 JAN 76 PAGE 12 EPNL** (EPNDB) 101.3
AL ALT** (08A) (08A) (101.1 102.6 98.8 100.3 96.4 98.0 94.1 95.6 91.7 93.2 89.2 90.8 86.8 88.3 87.2 79.1 80.6 70.4 77.9 70.6 72.1 70.6 72.1 67.5 68.7 64.3 65.2 66.3 65.2	00 KNOTS 0NL 0DB) (N = 0.0 DB SEL (DB) 96.9 96.9 94.3) SELT** (08)	05 JAN 76 PAGE I2 EPNL** (EPNDB) 101.3
AL ALT** (08A) (08A) 101.1 102.6 98.8 100.3 96.4 98.0 91.7 93.2 86.8 86.8 86.8 88.8 77.9 77.9 73.5 75.1 70.6 72.1 67.5 68.7 64.3 65.2 60.8 61.4			SELT** (DB)	EPNL** (EPNDB) 101.3
101.1 102.6 98.8 100.3 96.4 98.0 94.1 95.6 91.7 93.2 89.2 90.8 86.3 85.8 81.7 83.2 79.1 80.6 70.4 77.9 73.5 75.1 70.6 72.1 67.5 68.7 64.3 65.2 61.4 57.2 57.5			(08)	(EPNDB) 101.3 99.8
101.1 102.6 98.8 100.3 96.4 98.0 91.7 93.0 89.2 90.8 86.8 88.3 81.7 88.3 73.5 77.9 77.6 77.9 64.3 65.2 60.8 61.4 57.2 57.5			38.3	101.3
98.8 100.3 96.4 98.0 91.7 95.6 91.7 95.6 89.2 90.8 86.8 88.3 81.7 83.2 79.1 80.6 70.4 77.9 73.5 75.1 67.5 68.7 64.3 65.2 61.4 57.2 55.2				8.66
96.4 94.1 91.7 93.2 89.2 89.2 80.8 86.8 86.3 81.7 79.1 70.4 77.9 73.5 75.1 77.9 67.5 66.3 66.3 61.4 57.2 53.3			97.1	
94.1 91.7 99.2 89.2 89.2 86.8 86.8 81.7 79.1 70.4 77.9 73.5 70.6 67.5 64.3 66.7 61.4 61.4 57.2 53.3			12.56	4.86
91.7 99.2 86.8 86.8 84.3 81.7 79.1 70.4 77.9 73.5 77.9 77.9 77.9 77.9 77.9 67.5			4.46	97.0
89.2 86.8 84.3 81.7 81.7 79.1 70.4 77.9 77.9 77.9 77.9 77.9 67.5 64.3 65.2 61.4 57.2 53.3			93.0	95.5
86.8 84.3 81.7 81.7 79.1 70.4 77.9 77.6 67.5 64.3 66.3 61.4 57.2 53.3	01.7 103.2		91.5	93.9
84.3 81.7 83.2 79.1 73.5 73.5 72.1 70.6 67.5 64.3 65.2 61.4 57.2 53.3	99.0 100.5	88.7	30.1	92.2
81.7 79.1 70.4 73.5 77.9 70.6 67.5 64.3 66.3 66.3 65.2 60.8 61.4 57.2 57.5 53.3	90.1 97.6		88.5	90.3
79.1 73.5 77.9 77.6 77.6 77.9 67.5 68.7 64.3 65.2 60.8 61.4 57.2 53.3	3.1 94		87.0	88.3
70.4 73.5 70.6 67.5 67.5 68.7 64.3 65.2 60.8 61.4 57.2 53.3	6.6	0.4	95.4	86.1
73.5 70.6 67.5 67.5 68.7 64.3 65.2 60.8 61.4 57.2 53.3 53.3		2.2	83.6	63.7
70.6 72.1 67.5 68.7 64.3 65.2 60.8 61.4 57.2 57.5	3.1		81.8	61.3
67.5 68.7 64.3 65.2 60.8 61.4 57.2 57.5	6.6	8.5	6.64	79,1
64.3 65.2 60.8 61.4 57.2 57.5 53.3 53.3	6.5	4.9	17.5	16.4
60.8 61.4 57.2 57.5 53.3 53.3	3.0 73.		75.0	73.6
57.2 57.5	9.2 69.	71.7 7	72.3	20.6
53.3 53.3	65.3 65.6		59.3	67.3
	1.0	2	56.2	63.8
49.1 49.1	56.5 56.5	3.0	63.0	60.3
	1.8	9.6	9.69	9.95
40.1 40.1			96.0	52.1
35.3 35.3	0.0	2.2	52.2	46.8

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

300 KNOTS 0.0 08 RDS1 8 0.29-104-050176-A 8.29-104-050176-A 8.4	1	6	O.		TONE T				•		A+		•	
10ENT: 6.6-029-104-050176-A 10ENT: 6.6-029-1		AIRS TEMP	PEED = 3 = 59 F	BELL RELL	TS HUMID =	20	•		•	A			a.	
X X X X X X X X X X X X X X X X X X X		NO.	OF RECOR			4			•	4	•	(0-14)	•	
X X X X X X X X X X X X X X X X X X X						•	•	:	ě.	:	:	•		
X X X X X X X X X X X X X X X X X X X						•	•		A. +		*	•	•	
X X X X X X X X X X X X X X X X X X X			•				•	Ā	٠		•		•	
X X X X X X X X X X X X X X X X X X X				•	:	•	•	+ 4	•	•	•	:		
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X X X X X X X X X X X X X X X X X X X				:	•	•	. + A			•	•	:		
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A						• A •	*		•		•		•	
X X X X X X X X X X X X X X X X X X X	•				A	÷	• •		•		•			
* * * * * * * * * * * * * * * * * * *				•	. A+.	*	•	•	•		:	•		
AIA ** ** ** ** ** ** ** ** **			*		×	d.	•		٠				91	
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XIX		:	×	:	· · · · ×	:	•	:	:	:	:	•		
			×	×							•	40 *		
· · · · · · · · · · · · · · · · · · ·		×	× .			•	•		•			+ <	= ALT	
		•					:	•	:	•				

CRUISE POHER P. 300 KNOTS F. REL HUMID = 70 % GORDS: 8 6-029-104-050176-A 6-029-104-050176-A 7 SET 8			· ST	. ST.E.	STE	ST E	. S. TE			•	•							= EPNL	SEL		06
CRUISE POWER 300 KNOTS F REL HUMID = 70 % 1000 00 00 1000 00 00 1000 00 00 1000 00 00 1000 00 00 1000 00 00 10				•				STE	STE								•	ξ ω μ			
CRUISE POWER 1 300 KNOTS 1 0.0 DB 1 0.29-104-050176-A 1 0.29-104-050	•		•	:		•		•	•	•	SET	SET	× + ×		•				•		8.0
CRUISE POWER 300 KNOTS F 0.0 DB 0.029-104-050176-A 1-029-104-050176-A 1-029-104-0				:	0.00	•	•		•	•	•	•	C.	тх	• EX	*	:		•	:	7.0
CRUISE POWER 300 KNOTS F REL HUMID = 70 % CORDS: 8 C				:			:			•				:				*		:	
CRUISE POWER 300 KNOTS F REL HUMID = 70 0.0 DB 0.029-104-050176-A 0.029-104-050176-A 0.029-104-050176-A		•	•	•	•	•	•	•	2	•	•	•	•	:	•	٠	:	W		· · ×	9
CRUISE POWER 300 KNOTS F REL HUMID 0.0 D8 0.029-104-050176 1.04-050176		20	4			•	9,	•	•			•			٠	•	•		٠		X
	E POWER		-050176				:			:				:			•			:	
AIRSPEED = 3 JEMP = 59 F DELTA N = 59 F NO. OF RECOR		REL	10St 8				•	•	•	•	•	•		•		•	:			:	4
TEMPAIRSPORT OF TAMES	X	= 59 F	F RECOR		•				•				•		•						3.0
	T-33	TEMP	NO.	:													•			:	2.0

			-		•															~				
	GROO	-00	0-6R	GROUND-TO-GROUND	PROP	PAGA	AGATION								1						OMEGA	9 V	9.0	
AIRCRAFT	1-33			6444		OPER	90		OWER				2000	i =	OROLOGY TEMP REL H	HUMI		70 7	ш. X		A/C OPS PROF 05 J	ALCC	VER 5	29 04 10
					-	4	IRSP	EEO :	= 30	O KNOT	018		-	ELTA	" Z	0	0 08			-	(7)	7		
SLANT DISTANCE (FEET)	77	18	19	20	21	22	23	24	52	FREG 26	QUENCY 27 28	ω ~	AND 29	30	31 31	32	33	34	35	36	37	38	39	9
200	73	71	20	17	79	81	80		83	84	83	87		98	85	84		84	83	82	9.0	81	68	8
250	71	69	89	72	11	62	8.2		81	82	81	85		84	83	82		82	81	80	77	78	98	7.
315	69	29	99	7.0	15	11	92	18	62	80	19	83	82	82	81	62	19	80	28	11	75	22	83	74
004	29	9	49	68	73	15	14		11	18	11	81		80	62	77		11	16	15	72	72	62	9
200	65	63	9	65	7.1	73	72		15	92	15	19		18	16	15		15	73	72	69	69	22	9
630	63	61	9	63	68	20	69		73	17	73	11		92	14	73		72	7.1	69	99	65	11	Š
800	61	29	28	61	69	29	99		17	11	20	12		14	72	7.0		7.0	89	99	29	61	99	Ś
1.00	59	23	96	58	63	44	5.3	99	S.A.	69	8.9	7.3	7.1	7.1	69	89	67	67	65	62	59	26	604	1
1250	57	55	53	55	59	61	60	63	69	67	99	7.0	69	69	29	65	19	94	61	58	24	51	53	3
1600	55	55	64	52	56	28	25	29	62	65	9	68	29	99	49	62	61	9	25	24	64	45	45	2
2660	25	64	46	84	55	24	53	55	29	63	62	99	49	79	62	29	58	25	53	8 4	7.7	38	36	12
2566	48	45	42	*	48	50	64	51	55	65	66	63	62	61	29	26	24	53	48	43	37	59	54	
3150	*	04	37	39	43	45	11	94	50	55	99	61	66	28	55	53	20	48	43	36	58	19	10	
4000	0+	35	32	33	37	39	38	40	45	20	25	25	96	25	25	64	94	43	36	27	20	9		
2000	35	30	27	28	32	34	33	35	39	45	84	53	25	51	48	*	41	37	53	17	00			
6300	36	56	25	54	28	53	58	30	33	39	43	64	48	24	11	39	35	53	20	9				
8000	27	54	23	21	56	27	56	28	30	36	04	45	tt	43	39	33	28	21	6					
10000	25	22	18	19	23	55	23		27	33	37	13		38				11						
12500	23	19	16	17	21	22	20		54	30	33	37		32		18	10	100						
16660	21	11	13	14	18	19	17	19	21	56	28	32	59	25	18									
20000	19	15	11	12	15	16	14		17	21	23	56		17										
25000	+	12	a	c		1 7			1 2	1.		0		0										

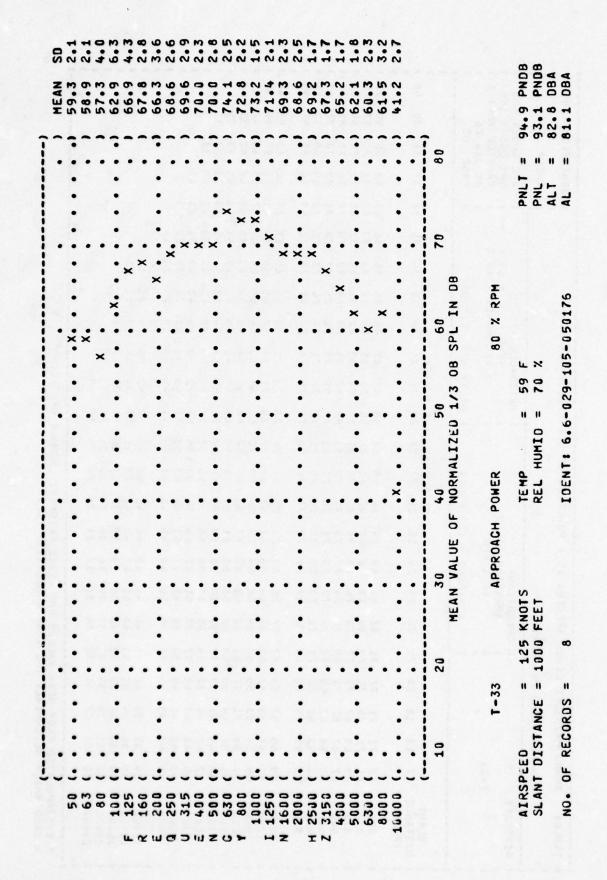
* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: * BAND WHICH DETERMINES THE TONE CORRECTION (C).

	GROUND-TO-GROUND P	ROPAGATION				•	OMEGA 6.6
AIRCRAFT: T-33		COPERATIONS CCRUISE P	POWER RPH		METEOROLOGY: TEMP REL HUMIO = 7	59 F)	A/C CODE: 029 OPS CODE: 104 PROFILE VER: A
		(AIRSPEED	D = 300 KNOTS) ts	0ELTA N = 0.0 08		US JAN 76 PAGE M2
SLANT DISTANCE	¥	ALT**	PNL	PNLT**	SEL	SELT**	EPNL**
(FEET)	(DBA)	(084)	(PN08)	(PNDB)	(80)	(08)	(EPNOB)
200	96.1	97.6	109.0	110.6	91.9	93.3	96.2
250	93.8	95.3	0	108.1	2.06	92.1	7.46
315	91.4	93.0	104.2	105.7	89.3	2.06	93.4
004	89.1	9.06	101.7	103,3	88.0	4.68	91.9
200	86.7	88.2	99.5	100.8	96.6	88.0	5.06
630	84.2	85.8	9.96	98.1	85.1	86.5	88.8
800	81.8	83.3	93.8	95.3	83.6	85.0	87.0
1006	79.2	80.8	8.06	92.3	92.1	83.5	85.0
1256	76.6	78.2	87.6	89.2	80.5	+	85.8
1600	74.0	75.5	84.2	85.8	78.9	80.3	80.4
2300	71.2	72.7	90.08	82.1	77.1	78.5	77.8
2500	68.3	69.8	76.8	78.4	75.1	76.5	75.0
3150	65.1	2.99	73.1	74.6	73.0	74.4	72.2
4000	61.6	65.8	68.7	70.0	73.5	71.6	68.7
2006		58.6	9.49	65.0	67.5	68.4	2.49
6300	53.3	24.0		59.5	64.2	64.8	60.3
8000	49.5	49.5	24.5	54.8	61.1	61.4	9.99
10000	44.7	44.7	49.3	49.3	57.6	57.6	52.1
12500	39.7	39.7	43.5	43.5	53.6	53.6	47.3
16000	34.2	34.2	36.5	36.5	49.1	49.1	41.3
20000	28.1	28.1	28.4	28.4	0.44	44.0	34.2
						2011	1000

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

250 (.	315 (000	200 (630 (800	1000	1250 (.	1600 (2000 (2500 (,	3150 (.	0004	2000 (6300 (8000 (10000 (12500 (16000 (20000 (25000 (
-	4 F	o z	٠.										•			•			•	3.0
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POWER			050176-			•			•				•		٩	•			•	
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E ST		REL HUMID = 70 %	-050176-A				1.0	•	•				•	 .E ×.	· · · · · · · · · · · · · · · · · · ·
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	ATA	ATP-TO-GROUND	ATP-TO-CROUND DBG	000	0	ACATTON	TON														OWECA	,	OMECA 6.6
										-	-	-	-		-	-	-	-					
AIRCRAFT	-					OPERI	APPROACE	-	OWER				MET	ETEOROLOG TEMP	LOGY		C	6		OPS OPS	C CODE		105
	1-33	_			-		80	OK.	PH.					œ	REL H	HUMIO	- 7	2 0		PR	OFIL	KE	
						A.	IRSPE	= 03	: 125	KNOT	15	-	DELT	N AT	,,	0.0	90			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DS JAN	76 H3	
SLANT										FRED	UENC	8		NUMBER									
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250	7.7	2	69	12	62	80	62	81	82	82	83	87 6	86 8	8 98	5 8	80	3 84	00	3	3 81	82	87	74
315	69	69	29	73	11	18	92		0		0		+	9 4	m	1 8		00	1 8	1		84	7
004	19	29	9	7.1	15	92	14		90		89		2	2 8	0	7 6		~	2 6	~		81	9
200	65	65	63	69	73	14	72		9		9		6	2 0	80	2 9		~	2 9	~		11	9
630	63	63	61	19	11	72	7.0		4		*		~	8 7	9	1 4		~	3 7	9		72	N
900	61	61	23	9	69	20	68		2		~		2	2 9	4	2 7		1	9 0	9		29	3
1000	59	59	25	63	29	89	99		7.0				2		9	9 6	9	6		9		62	4
1250	25	25	55	61	69	99	79		29		80		0		9	9 2	9	9		S		52	32
1600	52	52	53	29	63	10	62		69		9		8		9	4	9	~		S		14	'n
2000	53	53	51	25	61	29	60	29	63	63	63	9 29	9 99	9 99	9 49	1 6	0	6	56 52	2 47	45	37	
25.0	51	51	64	25	23	09	28		61		197		m		S	8 5	w	2		4		52	
3150	64	64	14	53	25	25	99		66		90		0		S	4	2	-		m		11	
0004	147	47	45	20	24	22	53		96		9		2		S	*	t	S		~			
2000	45	45	43	84	25	53	51		24		m		7		3	4 0	m	6		-			
6300	43	74	41	94	20	51	64		51		C		1		t	1 3	m	2		•			
9009	41	04	39	44	10	84	40		8 4		2		~		2	5	8	2	1				
10000	39	38	36	42	45	94	**				2		2	0	5	8 2	1 1	2					
12500	36	36	34	39	43	43	41				6		1	*	8 2	0 1	.1	1					
16,00	34	34	32	37	0 4	04	38				5		-	1	0								
20000	32	31	53	34	38	37	35	36	35	33	30	31 2	25 1	19 1	0								
25000	30	20	22	7.4	-	77					7			•									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8 A BAND WHICH DETERMINES THE TONE CORRECTION (C).

	1 N N N N N N N N N N N N N N N N N N N						•	
AIR-	AIR-TO-GROUND PROP	AGA						OMEGA 6.6
AIRCRAFT 8		(OPERATION:			METEOROLOGY: TEMP	 	59 F	A/C CODE: 029 OPS CODE: 105
1-33		2 08 3	RPM	•	REL	HUMID =	70%	PROFILE VER! A
		(AIRSPEE	0 = 125	KNOTS	DELTA N =	0.0 08		PAGE IS
SLANT DISTANCE	E AL	ALTON	PNF	PNLT**		SEL		
(FEET)	9	(DBA)	(PNDB)	(PN09)		(08)	(08)	(EPNDB)
200	98.0	99.8	110.9	112.7		1.96		101.0
250	7.56	97.5	•	110.4		95.4	96	7.66
315	93.4	95.2	106.2	108.0		94.1		98.3
004	91.0	95.8	103.8	105.6		92.7		6.96
200	88.6	7.06	101.3	103.1		91.3		4.56
630	86.1	87.9	98.7	100.5		89.8		93.8
900	83.6	85.4	0.96	97.8		88.3		92.1
1000	81.1	82.8	93.1	6.46		86.7	88.	90.2
1250	78.4	80.2		91.8		85.1	86.	88.1
1600	75.8	77.6	9	88.6		83.4	84.	85.9
2010	73.0	74.8	3	85.2		81.7	83.	83.5
2500	70.1	71.9	6	81.5		79.8	81.	80.8
3150	67.1	68.89	76.3	78.1		77.8	79.3	78.4
4000		65.4	2.	74.3		75.7	76.	75.7
2006	2.09	61.8	6	70.3		73.4	74.	72.8
6300		57.9	9.59	66.2		70.9	71.	69.7
8000		53.9	-	61.7	h	68.2	68.	66.3
10000	49.5	49.5	57.0	57.0			65.	62.6
12500	45.3	45.3	52.1	52.1		62.0		58.8
16000	40.8	40.8	6.94	6.94		8	58.	9**6
20000	36.1	36.1	41.3	41.3		;	54.	6.64
25000	6 +2	24.2	2 2 2	75 0			מט	44.7

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS! 8

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REL HUNID = 70 % REL HUNID = 70 % 105-050176-A 105-050176-A A + A + A + A + A + A + A + A + A + A	80 % RP	4P = 59	OF REC		•	•	:	٠	•		•	•	•	•	•	•	× .	× •	×	
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A + A + A + A + A + A + A + A + A + A +	1	= 70							***	A	+ 4	:	•	4	•		•		•	
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	125	4	NO. OF RECORDS! 8																		
APPROACH POWER	STON	HUMID =	8 05-050176-4				•							:					•	•	E
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GROUND-TO-GROUND PROPAGATION: (GROUND-TO-GROUND PROPAGATION To peration The control of the cont	TABLES	SOUN	D PR	SOUND PRESSURE	RE LE	EVEL	SPE	SPECTRA	AS A	A FUN	FUNCTION	N OF	SLANT		DISTANCE		(00)				106	IDENTIFICATION	ICAT	LON	
T-33 (OPERATION!) HETEOROLOGY! TEHP (APPROACH POWER) HETEOROLOGY! TEHP (AIRSPEED = 125 KNOTS) DELTA N = 0.0 DB (AIRSPEED = 125 KNOTS) DELTA N = 0.0	T-33 (1600	GROU	ND-T	0-6R	ONNO	PRO	PAGA	LION					101									MEGA	•		
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 56 66 64 70 74 75 77 77 78 82 81 81 80 78 76 76 66 66 64 70 74 75 77 77 78 82 81 81 80 78 76 76 76 66 66 64 70 74 75 77 77 78 82 81 81 80 78 76 76 76 66 66 67 70 71 75 77 77 78 77 77 77 77 77 77 77 77 78 77 77	17 18 19 20 21 22 23 24 25 26 27 28 30 81 81 81 81 81 82 89 89 89 89 89 89 89 89 89 89 89 89 89	AIRCRAFT	1-33	37				PER	PROA 80	rα	¥				Æ	TEORG	LOGY EMP	. IUMIO	" "	60		2020	PS C	00E:	105 105 ER:	d
FREQUENCY BAND NUMBER 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 68 68 66 72 76 77 76 78 79 79 80 84 83 83 82 80 80 64 66 66 72 76 77 76 78 79 79 80 84 83 83 82 80 80 64 66 66 72 76 77 76 77 77 78 82 81 81 78 76 65 66 64 70 71 69 72 77 77 78 82 81 81 78 76 66 66 67 70 71 71 71 75 77 77 78 78 77 77 60 60 60 60 60 70 71 71 71 71 71 71 77 77 61 60 60 60 60 60 60 60 60 70 71 71 71 71 76 74 75 62 62 62 65 66 64 67 69 69 73 72 73 71 69 69 63 64 65 69 69 73 72 73 71 69 69 64 65 65 66 64 67 69 69 69 73 72 73 71 69 69 65 66 64 67 69 69 69 73 72 73 71 69 69 65 67 69 69 73 72 73 71 69 69 64 70 71 71 71 71 76 77 77 71 71 71 71 76 79 79 72 72 73 71 70 71 71 73 74 75 73 71 70 70 74 75 73 71 70 70 75 74 75 75 77 76 76 76 76 76 70 77 77 77 78 76 76 78 78 78 78 76 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78	FREQUENCY BAND NUMBER 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 4 35 36 37 38 39 39 6 6 6 6 6 72 76 77 76 78 79 79 80 84 83 83 82 80 80 81 81 80 78 78 78 77 6 75 74 6 6 6 6 6 70 71 69 77 77 78 78 78 77 77 75 76 79 79 79 79 79 79 79 79 79 79 79 79 79							A	TRSPE	0	12		IS		W	4			90				AGE	L3		
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* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8 S BAND WHICH DETERMINES THE TONE CORRECTION (C).

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AIRCRAFT:		(OPERATION: (APPROACH POWE (80 % RPM	POWER	200	METEOROLOGY: TEMP REL HU	OLOGY: TEMP = REL HUMID =	59 F)	A/C CODE: 029 OPS CODE: 105 PROFILE VER: A
		(AIRSPEED	= 125 KNOTS	18	DELTA N =	0.0		PAGE M3
SLANT DISTANCE	AL	ALT**	PNL	PNLI**		SEL	SEL T**	EPNL **
(FEET)	(DBA)	(08A)	(PN 08)	(PN08)		(03)	(08)	(EPNOB)
200	93.0	98	105.9	107.7		91.7	93.1	96.0
250	7.06	92.5	103.6	105.4		7.06	91.8	1.46
315	4.89	90.2	101.2	103.0		89.1	90.5	93.3
00+	86.0	87.8	98.8	100.5		87.7	89.1	91.9
200	83.6	85.4	96.2	98.0		86.3	87.7	90.3
630		82.9	93.6	95.4		84.8	86.2	
906	78.6	4.08	90.06	95.5		83.3	84.7	86.9
1000	76.0	77.8	87.8	89.6		-	83.2	84.9
25	73.4	75.2	84.6	86.4		80.1	81.5	82.7
1600	7007	72.5	81.2	83.0		78.4	79.8	80.3
2000	64.9	2.69	77.5	79.3		76.6	78.0	17.6
2500	6.49	2.99	73.5	75.2		74.6	76.0	74.6
3150	61.7	63.5	9.69	71.4		72.4	73.9	71.7
0000	58.5	2.65	65.2	66.7		6.69	71.1	68.0
5000	54.3	55.3	4.09	61.5		6.99	67.8	63.9
6300	6.64	50.7	55.1	55.8		63.6	64.2	59.3
8000	45.8	46.1	50.5	50.8		60.5	60.8	55.4
10000	41.2	41.2	45.0	45.0		9	56.9	50.6
12500	36.2	36.2	38.8	38.8			52.9	45.5
16000	30.6	30.6	31.3	31.3		8	48.3	38.9
20000	24.5	54.5	21.9	21.9		43.2	43.2	30.5
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* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

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AIRCRAFT AIRCRAFT) BY		SNO	~			E PROVIDED:	FREQUENCY TANCE FROM SOURC	EL SOUND LEVEL 250 FEET FROM SOURCE		E B A S E .	AIRCRAFT AIRCRAFT
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	PRODUCED ON THE GROUND BY	AIRCRAFT	OURING GROUND RUN-UP OPERATIONS	TEST 74-004-027 AIRGRAFT CODE: 029 PROFILE VERSION: A			FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED	OF ANGLE AND ANGLE AND DIS	>	19 JAN 76	A I R F O A C	4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
AIRCRAFI AIRCRAFI AIRCRAFI	NOISE PRODU	T-33A	DURING GROU	TEST AIRGRAFT PROFILE COMPUTER P			SETTING, THE	ALIZED DATA AS A FUNCTION ON NORMALIZED SPL AT 250 FEET ELEVELS AS A FUNCTION OF A	PERCEIVED NOISE LEVEL TONE-CORRECTED, PERCEIVED NOISE LEV A-WEIGHTED OVERALL SOUND LEVEL TONE-CORRECTED, A-WEIGHTED OVERALL E LEVELS AS A FUNCTION OF ANGLE AT		TERSON	AIRCRAFT AIRCRAFT
1 4 4 1 8 8 1 9 9 1 1 1 1					POWER SETTING	35% RPM	FOR EACH POWER	NORMALIZED DATA NORMALIZED NOISE LEVELS AS	FERCEIVED NOISE LEVEL TONE-CORRECTED, PERCEIVED NOISE LE A-WEIGHTED OVERALL SOUND LEVEL TONE-CORRECTED, A-WEIGHTED OVERALL NOISE LEVELS AS A FUNCTION OF ANGLE AT		ROSPACE IGHI-PAT	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
AI RCRAFT AI RCRAFT											4 3 M M	AIRCRAFT AIRCRAFT
4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5												T-33A T-33A

	7	= 250	L												• • •	TEST 7	700-4	4-004-027	
NOISE SOURCE/SUBJECT T-33A AIRCRAFT ENG. J33-A-35 GROUND RUNUP	RCE/SUBJEC AIRCRAF 3-A-35 RUNUP	Ē.		SI	ERATIONS IULE, 35 SINGLE E	ON: 35% RPM ENGINE	E W			E S B T E	ETEOROLOGY: TEMP BAR PRESS REL HUMID		29.92 74	L H X	9	RUN 01 AIRCRAFT OPERATION PROFILE V 19 JAN 76 PAGE C1	_ w	CODE	029 01013 A
BAND CENTER FREG (HZ)	0	97	20	30	7	5.0	3	7.0 A.N	ANGLE	COEGRE	EES)	110	120	130	140	150	160	>170	>180
20	65	99	19	99	69	20	72	22	7.0	11	11	73	29	74	92	15	89	58	48
63	68	89	99	29	70	0.2	73	73	14	73	72	73	69	92	78	75	29	25	47
9.0	14	73	72	72	73	14	92	77	92	15	15	92	73	19	19	22	69	66	64
100	73	72	73	73	22	73	14	92	75	14	73	22	20	18	11	14	999	26	46
125	7.0	99	68	11	70	69	7.0	7.1	72	69	7.0	11	29	75	75	72	249	24	*
160	69	69	69	20	68	19	69	73	73	73	14	15	69	22	7.8	7.	624	25	45
200	2;	20	2;	20	202	17	72	16	2.	78	19	80	92	90	8 1	22	594	64	39
315	1 0	2 0	1 89	6 9	0	0	2 8	0 0	2.2	2 5	22	75	22	7.5	7.	0 9	244	1	34
204	99	69	20	99	69	9	69	7.1	72	73	14	92	73	16	202	69	55	42	32
200	69	99	9	29	99	69	69	2.0	71	11	73	77	12	73	69	29	51	41	31
630	63	69	29	99	68	99	68	7.1	72	7.1	73	7.8	25	14	69	99	51	41	31
900	19	99	69	70	29	20	25	72	1.4	14	14	92	7.1	7.1	69	9	53	43	33
1000	63	63	19	69	69	99	65	68	69	02	72	74	29	7.0	99	65	61	51	41
1250	69	29	15	90	78	68	73	99	29	14	7.1	73	7.0	73	7.1	73	7.1	61	51
1600	29	63	69	69	29	99	69	69	69	99	7.0	69	49	63	9	61	24	44	34
2000	63	66	99	63	61	62	63	69	10	99	69	73	9	61	9	25	51	41	31
2500	69	29	62	62	19	62	63	69	61	9	29	73	61	28	9	66	53	43	33
3150	61	58	9	61	29	60	69	9	58	58	69	72	28	58	58	25	48	38	28
4000	63	28	61	29	61	29	58	25	63	28	49	70	61	9	9	25	8 4	38	28
5000	79	58	61	09	29	25	58	25	99	58	62	99	29	58	96	53	**	34	54
6306	28	53	25	25	25	25	25	51	53	25	25	29	25	51	20	84	39	53	19
8000	26	16	55	53	25	51	20	20	64	48	24	24	24	48	9 4	45	334	23	13
10300	51	14	14	24	46	45	45	*	*	45	14	48	41	45	40	38	27<	11	-

XXXX = EXTRAPOLATED OR INTERPOLATED SPL >> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

																OME	OMFGA 8.2		
	AS A	AS A FUNCTION OF	N OF A	ANGLE A	AND DISTANCE	1	FROM S	SOURCE) TEST	T 74-004	04-027	
NOISE SO T-33 ENG. GROU	SE SOURCE/SUBJECT: T-33A AIRCRAFT ENS. J33-A-35 GROUND RUNUP	AIRCRAF 35	_		OPERATIONS IDLE, SINGLE	TION: DLE, 3 INGLE	35% RPH ENGINE				METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	SS CI	= 59.92 = 29.92 = 70	L H X	9	A AIR	HE HW O	CODE CODE RSION	029 0101
DISTANCE	3	51	92	99	3	50	9	2.	ANGLE	0.0E	(DEGREES)	110	120	130	140	150		>170	>180
500	92.3		95.6	95.2	94.3	6.06	32.5	93.2	93.4	93.8	6.56	100.0	93.0	95.3	9.46	91.7	84.8	74.4	63.
250	90.1		90.6	93.0	92.1	40.7	90.3	6.06	91.2	91.6	93.7	7.26	8.06	93.1	92.4	89.5	82.6	72.2	61.
436	85.4	63.0	85.8	88.5	87.6	4.00		85.3	86.7	87.1	89.1	93.1	86.3	88.7	90.5	85.0	78.1	67.6	56.
5.0	85.9		83.4	80.1	85.2	41.7	93.5	83.9	84.3	1.48	46.7	1.06	84.0	86.3	85.5	82.6	15.8	65.1	53
630	80.2		78.4	83.7	82.7	79.1	78.3	78.6	79.1	82.3	84.2	85.5	79.1	83.7	82.8	80.1	73.3	59.8	51.1
1999	74.5	72.3	15.7	78.5	17.5	13.8	75.6	75.8	76.5	77.1	78.8	82.7	76.5	78.6	77.1	74.9	68.1	57.0	44
1250	71.4		72.8	75.7	74.7	70.8	72.1	72.8	73.7	74.2	75.8	19.6	73.7	75.8	73.9	72.0	65.2	53.9	40
1600	68.0	65.8	2.60	72.7	71.0	67.0	9.69	1.69	7.0.7	71.2	72.7	76.3	70.8	72.9	10.4	68.9	62.0	50.5	36.1
2000	64.5		9.99	4.69	4.80	2.40	66.3	9.99	4.29	61.9	9.69	72.8	9.29	69.8	2.99	65.5	58.6	46.5	31.
23.50	4.00	58.5	62.7	65.8	2.40	000	0.70	62.8	63.8	64.2	65.6	69.1	5 . 4 . 3	62.3	65.0	61.8	54.8	47.5	27.
075	200		200	67.6	000	5.00 8.15	20.00	2000	55.5	500 S	27.4	60.0	26.0	56. A	23.5	52.7	45.0	31.6	16.
5000	45.1	43.0	6.6	52.7	51.3	1.94	40.0	49.2	20.0	51.0	52.5	55.9	51.1	51.7	48.1	47.4	40.8	27.0	6
6300	38.7		43.1	47.4	46.0	40.7	42.0	43.4	45.1	45.5	6.94	50.5	45.6	46.0	42.0	41.6	34.1	20.2	1.
9300	31.7	30.5	36.5	41.5	39.7	34.8	30.1	37.9	0.04	40.4	41.9	45.6	40.7	41.0	35.9	35.6	27.8	10.2	
10000	21.5		29.5	34.5	32.4	28.2	4.62	31.1	33.1	33.6	35.6	40.1	34.9	35.9	30.3	27.3	18.6	۳.	
12530	7.8	13.6	17.7	25.2	55.9	17.5	50.4	23.5	26.2	56.6	27.8	33.8	28.0	29.0	20.6	16.6	9.3		
16000		**	5.9	15.9	13.3	6.9	7.2	13.4	16.1	15.6	18.9	6.52	19.8	19.2	7.2	5.8	•		
25000					•••				•	•	1.1	6.0	•	•					

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

	AS A F	UNCTIO	FUNCTION OF ANGLE		AND DISTANCE	TANCE	FROM S	SOURCE								TEST (1 74-004-027	14-027	
NOISE 501 T-33.	ISE SOURCE/SUBJECT: 133A ARCHAFT ENG. J33-A-35 GROUND RUNUP	BJECT I	-		OPERA	OPERATIONS IDLE, 3 SINGLE	35% RPM ENGINE				METEOROLOGY I TEMP BAR PRES REL HUMI DELTA N =	PRESS HUMID	= 59 = 29.92 = 70	L HX	5	AIRCE OPERCE 19 J	RUN 01 AIRCRAFT OPERATION PROFILE VE 19 JAN 76 PAGE E1	CODE CODE ERSION	029 01013
DISTANCE	•	1.0	3	30	9	50	0.9	7.0	ANGL		(DEGREES) 90 160	110	120	130	140	150	160	>170	180
200	93.0	91.2	96.0	4.66	4.86	6.06	95.1	93.2	94.5	9.56	6.56	100.0	9.46	97.6	97.2	95.1	89.3	78.9	68.1
250	91.5	89.0	93.8	97.2	96.1	88.7	92.3	90.0	92.3	93.4	93.7	97.7	92.4	95.4	95.0	92.9	84.9	76.7	63.4
100	86.8	84.3	89.2	92.7	91.6	84.1	88.3	86.3	87.9	88.9	89.1	93.1	88.0	91.0	90.6	88.3	82.6	72.0	60.6
500	84.3	81.8	86.8	90.3	89.2	81.7	85.9	83.9	45.4	80.0	86.7	90.7	85.6	9.99	88.1	86.0	80.2	9.69	58.
630	81.6	79.5	8 + . 3	87.9	80.8	79.1	83.5	81.3	95.8	84.1	84.2	88.2	83.2	86.0	85.4	83.5	77.8	67.0	55.6
830	78.9	76.5	91.7	85.3	84.2	16.5	80.9	78.6	80.3	81.5	81.6	85.5	80.7	83.5	82.6	80.9	75.3	64.3	25.
1000	76.0	73.6	19.0		81.6	73.8	78.2	75.8	77.6	78.9	78.8	82.7	78.1	6.08	79.7	78.2	72.6	61.4	49.
1250	72.8	2002	76.1		78.7	70.8	75.3	72.8	74.8	76.0	75.8	19.6	75.3	78.1	16.5	15.4	9.69		45.4
1600	4.69	67.0	73.0		15.7	67.6	72.2	2.69	71.8	73.3	72.7	76.3	72.4	75.2	73.0	72.3	66.5	55.0	40.6
2000	65.6	63.3	69.7		72.4	2.49	68.8	9.99	68.5	2.69	9.69	72.8	69.3	72.1	69.3	68.9	63.1	50.9	36.
2500	61.9	28.5	66.0	73.0	69.8	60.5	9.59	62.8	6.49	66.0	9.59	69.1	62.9	68.2	4.69	65.1	59.5	47.0	35.
3150	51.5	55.5	62.0	60.2	64.8	56.5	61.0	58.9	61.1	62.1	61.7	65.3	62.5	63.7	61.1	60.8	55.0	45.2	27.
4000	52.1	43.6	299	61.0	23.6	51.8	99.0	54.3	26.4	51.5	57.4	60.0	57.3	58.6	22.6	22.4	40.4	35.2	20.4
2000	46.0	43.8	51.0	55.3	53.7	46.7	50.5	7.64	51.5	52.1	55.5	92.9	25.0	53.1	49.1	49.4	43.4	29.1	11.6
6300	39.5	36.9	4004	49.1	47.6	40.7	43.7	43.4	45.5	46.2	6.94	50.2	46.3	6.94	43.0	45.9	35.9	22.0	3.1
9000	32.0	30.7	37.2	45.3	40.5	34.8	36.6	37.9	40.2	1.04	41.9	45.6	41.0	41.4	36.4	36.3	28.7	11.1	
10000	21.5	22.5	29.5	34.5	32.4	28.2	59.4	31.1	33.1	33.6	35.6	40.1	34.9	35.9	30.3	27.3	18.6	.3	
12500	7.6	13.6	17.7	25.5	22.9	17.5	20.4	23.2	2002	56.6	27.8	33.8	28.0	29.0	50.6	16.6	9.3		
16000		1.4	5.9	15.9	13.3	6.9	1.2	13.4	16.0	15.6	18.9	55.9	19.8	19.5	7.2	5.8			
20000				9.0	3.7			3.5	2.5	4.6	10.0	15.9	8.1	6.9					
20000																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

	AS A L	A FUNCTION OF	9	ANGLE A	AND DISTANCE		FROM SOURCE	OURCE) TES		104-021	
NOISE SOURCE/SUBJECT 8 T-33A AIRCRAF ENG. J33-A-35 GROUND RUNUP	133-A-	TE SOURCE/SUBJECT: 1-33A AIRCRAFT ENG. J33-A-35 GROUND RUNUP			OPERATIONS IDLE, SINGLE	PERATION: IDLE, 3 SINGLE	ATIONS IDLE, 35% RPM SINGLE ENGINE				METEOROLOGY S TEMP 9AR PRES REL HUMI		= 59 S = 29.92 D = 70	LHX	÷	AIRCE OPERI PROFI PAGE	RUN 01 AIRCRAFT OPERATION PROFILE VE 19 JAN 76 PAGE F1	CODE CODE RSION	029 01013
DISTANCE	,	3	29	30	9	5.0	3	2.0	ANGLE 80		(DEGREES) 90 100	011	120	130	140	150	160	>170	>180
200	78.4	76.4	80.3	83.9	82.3	78.5	80.0	80.2	61.1	82.1	83.5	86.7	81.5	82.9	90.7	79.1	74.5	64.5	54.5
550	76.2	74.2	78.1	81.8	80.2	76.4	27.9	78.1	79.1	40.1	81.4	84.6	4.64	80.8	78.6	77.0	72.4	62.4	52.4
	14.0	72.1	76.0		76.1	74.2	15.8	76.0	77.0	78.0	79.5	82.5	7.3	78.7	16.5	24.9	70.3	60.3	50.3
9.00	04.5	67.7	71.0	75.3	73.7	6.69	71.4	71.7	72.7	73.6	74.9	78.0	73.0	74.4	72.2	70.5	66.1	56.0	48.1
	67.1	65.4	69.3		71.4	67.6	69.5	69.5	70.4	71.4	72.6	75.7	70.8	72.2	69.8	68.3	63.7	53.7	43.7
	2.49	63.0	67.0		69.1	65.3	60.8	67.1	68.1	69.1	70.5	73.4	9.89	6.69	67.4	6.59	61.4	51.4	41.4
.000		7 07	9 9	7 6 9	. 33	0	7 7 3	4 . 13	9	. 22									
	59.5	58.0	62.1	65.8	200	6000	61.0	62.3	63.3		65.3	6.00	6.3.8	65.0	62.3	60.0	56.5		36.5
	56.7	55.4	58.5		61.6	57.8	59.3	59.7	60.8	61.7	62.7	65.8	61.3	62.5	59.5	58.3	53.9	43.9	33.9
	53. ₺	52.6	56.7		58.8	55.1	56.6	57.0	58.1	59.0		63.0	58.7	59.8	56.6	55.5	51.1		31.1
	50.6	1.64	53.8		6.99	52.1	53.6	54.1	55.5	56.1		60.1	55.9	56.8	53.5	52.4	48.2		28.2
	7.14	40.4	97.6		52.6	48.9	20.4	50.0	52.1	52.9		56.9	52.8	53.5	50.1	49.1	45.0		25.0
	43.5	45.8	47.1		49.1	45.4	6.94	47.4	48.0	49.5	20.	53.3	49.5	6.64	40.4	45.4	41.5		21.5
2000	39.4	39.8	43.1		45.1	41.5	45.9	43.4	1.44	45.5	46.	49.5	45.1	45.8	45.4	41.4	37.6		17.6
6336	34.9	34.5	38.7	45.4	40.4	37.2	38.5	39.1	40.4	41.2	45.	44.9	40.8	41.4	38.0	37.0	33.2		13.5
770	30.5	30.4	24.3		30.1	33.1	34.3	35.5	36.5	37.1	38.0	41.0	37.0	37.5	34.0	35.8	28.4		8.4
1,606	25.7	26.0	29.4	32.3	30.9	28.7	29.7	31.0	32.3	32.6		36.8	32.9	33.4	29.7	28.1	22.8	12.8	2.8
	50.6	21.2	24.1		25.3	23.9	24.7	20.3	27.6	27.7		32.1	28.4	28.8	25.2	23.1	16.4	9.4	
	15.3	16.0	18.3	19.9	19.3	18.5	19.3	21.2	22.4	22.3	23.7	27.1	23.5	23.9	20.3	17.9	9.3		
20000	9.0	10.4	15.2		13.2	15.9	13.6	15.7	16.7	16.6		21.5	18.0	18.6	15.3	12.7	1.8		
25300	4.3	4.0	6.5	4.9	7.0	6.9	7.0	4.6	10.7	10.4		15.3	15.0	13.0	10.3	7.4			

THE MACRAFT (OPERATION:) HETCOROGOTI DATE OF STATE (STALE ENGINE DATE OF STALE DATE OF			AS A F	AS A FUNCTION OF ANGLE	N OF		AND DISTANCE	DISTANCE	FROM	SOURCE								OMEGA	OMEGA 8.2 TEST 74-004-027	14-027		
79.8 77.0 83.6 84.1 86.3 78.5 82.6 80.2 82.3 84.0 83.5 86.7 83.1 85.2 83.3 82.4 79.0 69.0 75.4 73.4 73.4 73.4 73.4 73.4 73.4 73.4 73	NOISE TI	SOUN NG.	RCE/SU J33-A- D RUNU	JACRAF VIRCRAF 35	_ +		OPER	TION: TDLE, SINGLE	SSX RPM ENGINE			2222	ETEORO TEM BAR REL ELTA N	PRESS HUMIO	"""	L H X		PROFES	RAFT RATION FILE VI	CODE	029 01013 A	
77.6 77.5 83.6 84.1 86.3 78.5 82.6 80.2 82.3 84.0 83.5 86.7 83.1 85.2 83.3 82.4 78.0 69.0 77.0 77.0 18.2 77.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0	OISTA	NGE	,	12	20	36	7	5.0	7.0	2	ANGL		REES)	110	126	130	140	150	!	!	180	
77.6 75.5 81.5 86.0 84.2 76.4 80.5 78.1 10.2 81.9 81.4 84.6 81.1 83.1 81.2 81.3 76.9 66.9 86.9 73.5 77.5 89.9 72.1 76.2 77.5 77.5 87.5 77.7 77.1 80.2 77.2 77.7 77.1 80.2 77.7 77.1 80.2 77.7 77.1 80.2 77.7 77.1 80.2 77.7 77.1 80.2 77.7 77.1 80.2 77.7 77.1 80.2 77.7 77.1 80.2 77.2 77.1 77.2 77.2 81.7 77.2 81.7 77.2 81.7 77.2 81.7 77.2 81.7 77.2 81.7 77.2 81.7 77.2 81.7 77.2 81.7 77.2 81.7 77.2 81.7 77.2 81.7 77.2 81.7 77.2 81.7 77.2 81.7 77.2 81.7 77.2 81.2 77.2 81.2 77.2 81.2 77.2 81.2 77.2 81.2 77.2 81.2 77.2 81.2 77.2 81.2 77.2 81.2 77.2 77.2 77.2 77.2 77.2 77.2 77.2 7	1 20		19.8	77.0	83.6				82.6	80.2	92.3	84.0	83.5	86.7	83.1	85.2	83.3	82.4	19.0	0.69	59.0	
73.2 71.2 77.2 81.7 79.9 72.1 76.2 73.9 76.1 77.1 81.3 76.8 78.9 77.0 76.1 77.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0	31	- u	77.6	73.4	73.4				78.4	78.1	78.1	81.9	81.4	84.6	78.9	83.1	81.2	80.3	76.9	66.9	56.9	
74.9 69.0 75.0 79.5 77.7 69.9 74.0 71.7 73.8 75.5 74.9 78.0 74.7 76.7 74.8 73.9 71.4 60.4 68.5 68.2 68.2 68.2 68.2 68.2 68.2 68.2 68.2	,,		73.2	71.2	77.2				76.2	73.9	76.0	7.77	77.1	80.3	70.8	78.9	77.0	76.1	72.6	62.6	52.6	-
66.1 64.3 70.4 74.9 73.2 65.3 69.5 67.1 69.2 70.9 70.2 73.4 70.2 72.2 70.0 69.2 65.9 65.9 65.9 65.9 65.9 65.9 65.9 65.9	25		70.9	69.0	75.0				74.0	71.7	73.8	75.5	74.9	78.0	74.7	76.7	74.8	73.9	70.4	4.09	20.4	-
63.5 61.8 67.9 72.5 70.4 62.9 67.1 64.6 62.3 64.4 66.1 65.3 64.4 67.4 67.3 64.6 67.5 66.8 67.5 66.4 67.4 67.3 64.8 67.5 66.8 67.5 66.4 67.4 67.4 67.1 67.2 67.6 67.6 67.9 64.4 66.1 65.3 64.4 66.1 65.3 64.4 66.1 65.3 64.6 67.7 65.8 62.9 64.8 67.1 61.0 67.7 65.8 62.9 64.8 67.8 67.1 61.0 67.7 65.8 62.9 64.8 67.9 67.1 61.0 67.0 67.1 67.0 67.1 67.0 67.1 67.1 67.0 67.1 67.1 67.1 67.1 67.2 67.1 67.2 67.1 67.2 67.1 67.2 67.1 67.2 67.1 67.2 67.1 67.1 67.2 67.1 67.2 <th< td=""><td></td><td></td><td>66.1</td><td>54.3</td><td>70.4</td><td></td><td></td><td></td><td>69.5</td><td>67.1</td><td>69.2</td><td>70.9</td><td>70.2</td><td>73.4</td><td>70.5</td><td>72.2</td><td>70.0</td><td>69.2</td><td>62.9</td><td>55.9</td><td>45.9</td><td></td></th<>			66.1	54.3	70.4				69.5	67.1	69.2	70.9	70.2	73.4	70.5	72.2	70.0	69.2	62.9	55.9	45.9	
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55.2 53.9 60.1 64.6 62.9 55.1 59.2 57.0 60.0 63.0 60.4 62.1 59.2 58.6 58.1 56.0 67.1 60.1 57.5 59.1 56.0 55.6 42.6 42.6 48.6 47.7 51.9 57.1 60.1 57.5 59.1 56.0 55.7 52.6 42.6 48.6 47.7 51.9 53.0 50.3 57.2 54.4 55.8 55.9 56.9 54.4 57.5 49.9 57.1 60.1 57.5 59.1 56.0 55.7 52.6 42.6 42.6 46.9 56.9 54.4 49.5 56.9 56.9 54.4 49.6 46.6 46.3 49.2 46.1 47.2 49.9 49.6 46.3 49.2 46.1 47.2 49.9 30.3 30.3 30.3 30.3 30.3 30.3 30.3 30.3 30.3 30.3 30.3 30.3 30.3 30.3<	15.1		58.1		62.3				61.9	59.7	61.9	63.5	62.7	65.8	65.9	64.8	62.1	61.6	58.4	48.4	38.4	-
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44.6 43.9 49.7 54.1 52.3 45.4 49.0 47.4 49.5 56.9 50.3 53.3 51.7 74.8 48.5 48.1 45.0 35.0 40.2 39.6 45.1 49.3 47.5 41.5 41.5 41.5 41.5 42.5 35.0 51.7 41.5 41.5 41.5 42.5 35.0 51.7 41.5 41.6 45.1 47.2 43.9 43.4 40.3 310.3 35.5 35.0 40.1 44.1 42.3 37.2 39.6 39.1 40.9 42.0 42.0 44.9 41.4 42.3 39.0 38.4 55.0 25.0 31.3 33.7 30.7 30.7 30.7 30.7 35.0 34.5 35.9 33.4 29.2 19.2 25.7 20.0 29.4 32.3 31.9 20.7 29.7 31.0 32.3 32.6 33.7 26.8 32.9 33.4 29.7 20.1 22.8 12.8 20.6 21.2 24.1 26.4 25.3 23.9 24.7 26.3 27.5 27.7 28.9 32.1 28.4 28.8 25.2 23.1 16.4 6.4 15.3 15.9 19.3 18.6 19.3 18.6 19.3 18.6 19.3 18.6 19.3 18.6 19.3 18.7 16.7 16.6 18.1 21.5 18.0 18.6 15.3 12.7 1.8 4.3 4.0 5.9 0.4 17.0 13.0 11.3 7.4	253		52.1		57.1				56.3	54.1	56.3	57.9	1.70	56.1	57.5	59.1	56.0	55.7	52.6	42.6	32.6	
40.2 39.5 45.1 49.3 47.5 41.5 44.5 43.4 45.4 46.6 46.3 49.2 46.1 47.2 43.9 43.4 40.3 30.3 35.5 35.0 40.1 44.1 42.3 37.2 39.6 39.1 40.9 42.0 42.0 44.9 41.4 42.3 39.0 38.4 35.0 25.0 33.7 33.7 33.7 33.8 41.4 42.3 39.0 38.4 35.0 25.0 33.7 33.7 33.8 41.4 42.3 39.0 38.4 35.0 25.0 25.0 33.7 33.7 33.8 41.0 42.3 38.0 34.5 33.4 29.2 19.2 25.7 26.0 29.4 32.3 31.9 28.7 29.7 31.0 32.3 32.6 33.7 36.8 32.9 33.4 29.7 28.1 22.8 12.8 20.6 21.2 24.1 26.4 25.3 23.9 24.7 26.3 27.7 28.9 32.1 28.4 28.8 25.2 23.1 16.4 6.4 15.3 16.0 18.3 19.9 19.3 18.6 19.3 21.2 22.4 22.3 23.7 27.1 23.5 23.9 20.3 17.9 9.3 9.8 11.4 12.2 13.1 13.2 12.9 13.0 15.7 16.7 16.6 18.1 21.5 18.0 18.6 15.3 12.7 1.8 4.3 4.0 5.9 0.4 7.0 6.9 7.0 9.7 10.7 10.4 12.0 15.3 12.0 13.0 10.3 7.4	004		44.6		49.7				49.0	47.4	49.5	56.9	50.3	53.3	50.5	51.7	48.5	48.1	45.0	35.0	25.0	-
35.5 35.0 40.1 44.1 42.3 37.2 39.6 39.1 40.9 42.0 42.0 44.9 41.4 42.3 39.0 38.4 35.0 25.0 30.7 30.7 30.7 35.0 35.0 34.5 35.2 35.2 35.7 36.0 41.0 37.3 38.0 37.5 33.4 29.2 19.2 20.7 30.7 30.7 30.7 30.7 30.9 32.9 33.4 29.7 29.2 19.2 19.2 20.6 21.2 24.1 26.4 25.3 23.9 24.7 26.3 27.7 28.9 32.1 28.4 28.8 25.2 23.1 16.4 6.4 15.3 10.9 19.3 18.6 19.3 21.2 22.4 22.3 23.7 27.1 23.5 23.9 20.3 17.9 9.3 15.8 13.2 12.9 13.0 15.7 16.7 16.6 18.1 21.5 18.0 18.6 15.3 12.7 1.8 4.8 4.3 4.0 5.9 5.0 10.3 17.9 9.3 4.0 5.9 5.0 5.4 15.3 12.7 1.8 5.0 13.0 10.3 7.4	005)	0	40.5		45.1				44.5	43.4	45.4	46.6	46.3	49.2	46.1	47.2	43.9	43.4	40.3	30.3	20.3	-
33.7 30.7 35.0 34.5 36.9 33.1 34.8 35.2 36.7 37.5 38.0 41.0 37.3 38.0 34.5 33.4 29.2 19.2 25.7 26.0 29.4 32.3 30.9 28.7 29.7 31.0 32.3 32.6 33.7 36.8 32.9 33.4 29.7 28.1 22.8 12.8 22.6 21.2 24.1 26.4 25.3 23.9 24.7 26.3 27.5 28.9 32.1 28.4 28.8 25.2 23.1 16.4 6.4 15.3 19.9 19.3 10.6 19.3 21.2 22.4 22.3 23.7 27.1 23.5 23.9 20.3 17.9 9.3 9.8 13.4 12.2 13.1 13.2 12.9 13.0 15.7 16.7 16.6 18.1 21.5 18.0 18.6 15.3 12.7 1.8 4.3 4.0 5.9 0.4 7.0 6.9 7.0 9.7 10.7 10.4 12.0 15.3 12.0 13.0 10.3 7.4	630	,	35.5	35.0	40.1				39.6	39.1	6.04	45.0	42.6	6.44	41.4	42.3	39.0	38.4	35.0	25.0	15.0	^
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20.6 21.2 24.1 26.4 25.3 23.9 24.7 26.3 27.6 27.7 28.9 32.1 28.4 28.8 25.2 23.1 16.4 6.4 15.3 16.0 18.3 19.9 19.3 10.6 19.3 21.2 22.4 22.3 23.7 27.1 23.5 23.9 20.3 17.9 9.3 9.8 110.4 12.2 13.1 13.2 12.9 13.0 15.7 16.7 16.6 18.1 21.5 18.0 18.6 15.3 12.7 1.8 4.3 4.6 5.9 6.4 7.0 6.9 7.0 9.7 10.7 10.4 12.0 15.3 12.0 13.0 10.3 7.4	1000		25.7		29.4	32.			29.7	31.0	32.3	32.6	33.7	36.8	32.9	33.4		28.1	22.8	12.8	2.8	-
15.3 16.0 18.3 19.9 19.3 18.6 19.3 21.2 22.4 22.3 23.7 27.1 23.5 23.9 20.3 17.9 9.8 11.4 12.2 13.1 13.2 12.9 13.0 15.7 16.7 16.6 18.1 21.5 18.0 18.6 15.3 12.7 4.3 4.6 5.9 6.4 7.0 6.9 7.0 9.7 10.7 10.4 12.0 15.3 12.0 13.0 10.3 7.4	1250	0	50.6		24.1	56.			24.7	26.3	27.6	27.7	28.9	32.1	28.4	28.8		23.1	16.4	9.4		-
9.8 13.4 12.2 13.1 13.2 12.9 13.0 15.7 16.7 16.6 18.1 21.5 18.0 18.5 15.3 12.7 4.3 4.6 5.9 6.4 7.0 6.9 7.0 9.7 10.7 10.4 12.0 15.3 12.0 13.0 10.3 7.4	1600		15.3		18.3	19.			19.3	21.2	55.4	22.3	23.7	27.1	53.5	23.9		17.9	9.3			^
4.3 4.0 5.9 0.4 7.0 6.9 7.0 9.7 10.7 10.4 12.0 15.3 12.0 13.0 10.3	2000		9.8		12.2	13.			13.0	15.7	16.7	16.6	18.1	21.5	18.0	18.6		15.7	1.8			-
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SPL DATA MERE EXTRAPOLATED FOR THIS ANGLE.

TSIO	ISTANCE = 250	FEET) TEST 74-064-027
110	CE/SUBJECT: AIRCRAFT 33-A-35 RUNUP	OPER	ATION: IDLE, 35% RPH SINGLE ENGINE		METEOROLOGY: 59 TEMP = 59.92 BAR PRESS =29.92 REL HUMID = 70 DELTA N = 0.0 08	59 F 92 IN HG 70 %	ARCHATT CODE 029 ARCHATTON CODE 01013 PROFILE VERSION A 19 JAN 76 PAGE J1
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. SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

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11	72	73		2	73			98	87	83	92	20	62	25	94	18
7.5	70	73		2	42			82	85	81	14	69	9	51	45	14
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96	14	16		,	72			81	18	1.4	7.7	99	99	26	20	20
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OVERALL 89 88	88	89	89	6.8	9.0	91 92	76	46	66	66	96	66	16	96	80	8.2

XXX = EXTRAPOLATED OR INTERPOLATED SPL

	AS A	AS A FUNCTION OF		ANGLE !	AND DIS	DISTANCE	FROM SOURCE	OURCE) TEST 7	CA 8.2	4-027	
NOISE SOU T-33/ ENG. GROUN	URCE/S	SE SOURCE/SUBJECT: 1-334 ENG. J33-A-35 GROUND RUNUP	-		OPER	OPERATIONS ENGINE SINGLE	RUNUP, ENGINE	20%	ж в	2000	METEOROLOGY: TEMP BAR PRES REL HUMI		= 59 S = 29.92 0 = 70	L H X	9	A AIR	2411	T CODE ON CODE ON CODE OF VERSION	029 01025
DISTANCE (FEET)	•	61	70	30	0,	50	99	7.0	ANGLE		(DEGREES) 90 100	110	120	130	146	150	160	170	180
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315	99.2	90.7	96.3	97.8	98.3	96.5	96.8	97.1	99.1	100.3	104.8		103.6	100.8	93.6		83.4	75.3	74.
00+	96.0		93.8				0	94.8	96.8	98.1	102.5			98.5	97.4	90	80.9	72.8	71.
200	94.3		91.2				0	92.4	4.46	95.7	100.0			96.2	95.1	88	78.4	70.3	69
9 9 9	91.7	68					+ 0	69.6	91.8	93.2	4.76			93.9	95.8	85	15.8	9. 19	66.6
000	6.00		000				0	200	2.60	36.0	0 • • •		*	91.0	200	000	6.21		60
1000	86.6	83.4	85.9				83.9	84.6	86.3	87.8	91.7	95.9	91.5	86.4	87.4	80.0	9.69	61.4	60.8
1250	85.8	80.	79.7				80.9	81.7	83.3	85.0	88.7	90.0	88.7	85.5	84.1	76.5	66.0	9.75	57.2
1500	79.3		76.3	78.1	78.7	77.0	6.77	78.7	80.2	81.9	95.6	87.0	85.7	82.5	80.4	72.7	62.0	53.2	53.2
2000	15.6		72.6				74.7	75.5	77.0	78.7	82.4	83.8	82.6	79.3	76.4	68.6	57.4	48.4	1.64
2500	71.5		68.6				71.2	72.1	73.5	75.2	78.9	80.4	79.3	75.4	72.4	63.9	52.2	45.9	43.7
3150	66.7		04.4				4.19	68.2	2.69	71.5	75.1	76.6	75.3	71.0	6.79	58.5	45.2	36.3	37.
0000	61.4	59.4	60.1				63.0	64.1	9 • 69	67.3	70.9	72.5	71.1	66.1	65.9	52.2	37.1	56.6	29.3
2000	55.5		55.5				58.1	59.5	61.0	62.8	66.4	68.1	9.99	61.3	57.8	45.8	26.4	14.1	17.
6300	48.3		49.8				52.7	54.4	50.0	57.9	61.4	63.2	61.7	56.2	52.3	39.2	15.8	1.7	5.4
8000	41.6	43.4	* * *	45.7			49.1	9.64	51.3	53.4	57.0	58.8	57.4	51.9	48.2	32.5	5.1		
10000	35.7		38.2	40.1		40.2	42.6	44.1	45.7	48.1	52.0		52.7	47.0	43.4	23.8			
12500	27.6		32.1		35.	33.5	30.3	37.5	39.4	41.8	45.8	48.	48.0		37.7	13.3			
16000	19.3	22.3	24.0		28.4	26.1	29.5	30.8	32.7	34.2	38.4	41.6	41.6	35.3	31.6	2.9			
23300	9.9		12.1	17.3			20.7	21.7	24.5	26.3	30.6	34.	34.5		21.6				

	AS A F	A FUNCTION OF	N OF	ANGLE A	AND DIS	DISTANCE	FROM S	SOURCE) OME		14-027	
	SE SOURCE/SUBJECT: 1-33A ABRCKAFT ENG. J33-A-35 GROUND RUNUP	NIKCKAF 35	-		OPER	OPERATION: ENGINE SINGLE	RUNUP, ENGINE	50%	r d		METEOROLOGY: TEMP BAR PRES REL HUMI DELTA N =		= 59 S =29.92 D = 70	L H X	9	AIRCRAI OPERAT PROFIL 19 JAN	02 AFT ATION ILE V	CODE CODE ERSION	029 01025
DISTANCE		10	20	30	3	20	9	7.0	ANGL		(DEGREES) 90 100	110	120	130	140	150	160	170	186
200	105.8	103.0	102.6	103.	104.4	-	131.5	102.5	104.2	105.9			109.3	106.4	104.9	9.66	89.8	81.8	80.1
250		100.8	100.5	101.	102.2		89.5	100.3	105.0	103.5			107.1		102.8	97.4	87.6	4.61	77.
315	101.2	94.5	97.8	99.1	94.0	97.0	96.8	98.1	99.8	101.2	106.2	107.0	104.9	102.1	100.7	95.2	85.2	76.9	75.4
200	26.40	0 2 2 2	92.7	0	25.0		200	0 7 . 6	96	6 9 9			100.301		000	200	000	1	100
630	93.7	90.0	90.1	91.	92.4		89.4	93.9	92.5	94.			97.9		93.9	88.3	77.6	69.3	67.
9 0 0	90.6	08.5	07.3	68.9	89.7		80.8	84.3	89.0	91.4			4.56		91.3	85.6	74.7	4.99	65.1
1030	87.9	85.2	4.40	85.9	86.8			85.6	87.0	88.7		9,6	92.7	89.7	88.4	82.4	71.5	63.0	62.0
1250	8 4. 8	82.0	81.2	82.8	83.0	81.4	80.9	85.8	84.	85.8	90.1		89.9	86.8	85.2	79.0	61.9	59.5	58.4
1600	61.3		77.8	79.	80.3			79.8	80.	82.7		88	87.0	83.8	81.5	75.2	63.8	54.8	54.4
2000	77.6	15.0	7+.1	75.	7007			76.5		79.5		85.	83.9	80.7	77.5	71.1	59.5	50.0	50.5
2500	73.4	74.8	70.1	7.1.7	72.6			73.1	74.	76.1		81.	80.5	7.97	73.5	4.99	24.0	9.44	44.
3156	68.7	00.5	6 2 9	67.2	64.1			69.5	70.	72.3		78.	76.6	72.3	0.69	61.0	47.1	37.9	38.4
0074	63.6	69.8	61.3	62.4	63.4			6.49		68.0		73.	72.2	67.2	63.8	54.5	38.6	27.9	33.
5000	2.95	9999	56.1	57.3	58.1			60.1	61.4	63.2		.80	67.3	62.1	58.4	47.2	27.5	15.1	18.1
63 00	49.1	4.64	30.4	51.6	52.3			54.8	56.3	58.5		63.	62.2	56.8	52.7	40.2	16.5	2.3	5.6
8000	45.0	43.7	1.4.1	46.0	47.1			8 • 6 4	51.5	53.5		59.1	57.7	55.5	48.4	33.0	5.5		
10000	35.7	37.1	30.2	40.	41.2			44.1		48.1		54.	52.7	47.0	43.4	23.8			
12500	27.6		32.1	34.	35.0			37.5	39.	41.8		48.	48.0	41.5	37.7	13.3			
16000	19.3		24.8	27.1	20.4			30.8	32.7	34.2		41.	41.6	35.3	31.6	2.9			
20000	6.8	9.6	15.1	17.3	18.4	16.0	20.7	21.7	24.	26.3	30.6	34.5	34.5	27.2	21.6				
00000																			

NOTES SOURCE CRUSTED TO PERALTON OF RANDON SON RPH 1 HETEUROLOGY	OISE SOURCE/SUBJECT: T-35A ENG. J3-A-35 GROUND RUNUP LUB 84.2 86.4 86.5 83.1 84.5 250 86.0 84.2 84.3 85.9 80.4 315 83.7 82.0 82.1 83.6 84.2 316 83.7 7.3 77.5 79.0 79.6 310 78.9 77.3 77.5 79.0 79.6 310 73.8 72.4 72.7 74.2 74.2 1000 65.1 67.2 67.5 69.0 69.8 1150 68.1 67.2 67.5 69.0 69.8 1150 68.1 67.2 67.5 69.0 69.8 1150 68.1 67.2 67.5 69.0 69.8 1150 68.1 67.2 67.5 69.0 69.8 1150 68.1 67.2 67.5 69.0 69.8 1150 61.9 61.6 62.1 83.6 69.2 1100 84.5 59.6 59.2 60.6 61.4 2500 54.7 55.3 55.9 57.3 58.2 1100 32.6 34.9 35.9 37.1 33.1 11250 22.9 25.0 26.1 27.4 28.3	OTATANON FUNDA	SOLIOS							-	74-00	1000	
B4.2 B0.4 B0.5 B1.1 B1.0 B1.0 <th< th=""><th> STANCE </th><th>RUNUP</th><th>50%</th><th></th><th>METEUR TE 3A 3B CELTA</th><th>1 - VH</th><th>=29.</th><th>T HX</th><th></th><th>AIRC OPER OPER 19 J</th><th>RAFT (ATION (ILE VER</th><th>SODE O</th><th>29 1025 A</th></th<>	STANCE	RUNUP	50%		METEUR TE 3A 3B CELTA	1 - VH	=29.	T HX		AIRC OPER OPER 19 J	RAFT (ATION (ILE VER	SODE O	29 1025 A
86.2 80.4 86.5 84.1 84.5 87.5 88.5 04.3 94.1 92.7 96.9 98.2 95.1 94.1 84.1 79.6 77.0 67.9 61.4 65.0 65.0 84.2 84.3 85.9 80.4 85.3 86.4 87.2 88.9 90.5 94.7 96.0 94.0 89.1 86.0 77.7 67.9 61.4 83.7 72.7 72.8 81.4 81.2 86.9 86.9 86.2 91.2 93.8 91.9 87.0 84.0 75.6 65.0 65.3 85.3 77.8 77.3 77.5 79.0 87.0 82.0 62.0 62.0 62.0 62.0 94.0 91.0 84.8 81.9 73.5 63.7 57.1 81.3 78.9 77.3 77.5 79.1 81.7 79.2 81.7 79.2 81.7 79.2 81.7 79.2 81.7 79.2 81.7 79.2 91.7 85.6 91.8 81.8 81.9 73.5 63.7 57.1 75.9 77.3 77.5 77.5 77.5 77.7 77.2 77.2 77.2 77.2	84.2 80.4 86.5 64.1 88.5 86.0 84.1 83.7 82.0 62.1 63.6 84.2 84.2 84.3 85.9 80.4 83.7 82.0 62.1 63.6 84.2 84.2 84.3 85.9 81.4 81.9 77.3 77.5 77.5 77.5 77.5 77.5 77.5 77.5	9		1 111	DESREES)	1	120	130	140	150	0.0	170	180
86.6 64.2 84.3 85.9 80.4 85.3 86.4 67.2 88.9 96.5 94.7 96.0 94.0 69.1 86.0 77.7 67.9 61.4 83.7 83.7 82.0 82.0 82.0 82.0 82.0 82.0 82.0 82.0	86.0 64.2 84.3 85.9 80.4 83.7 82.0 82.1 83.6 84.2 813.7 77.3 77.5 79.0 79.6 76.4 74.9 75.1 76.6 77.3 71.0 69.9 70.1 71.6 72.4 68.1 67.2 67.5 69.0 69.8 65.1 64.5 67.5 69.0 69.8 65.1 64.5 67.5 69.0 69.8 65.1 64.5 67.5 69.0 69.8 65.1 64.5 67.5 69.0 69.8 65.1 64.5 67.5 69.0 69.8 65.1 84.5 67.5 69.0 69.8 65.1 84.5 67.5 69.0 69.8 65.1 84.5 67.5 69.0 69.8 65.1 84.5 67.5 69.0 69.8 65.1 84.5 67.5 69.0 69.8 65.1 84.5 67.5 69.0 69.8 65.1 84.5 67.5 69.0 69.8 65.1 84.5 67.5 69.0 69.8 65.1 84.5 67.5 69.0 69.8 65.1 84.5 67.5 69.0 69.8 65.1 84.5 67.5 69.0 69.8 65.1 84.5 67.5 69.0 69.8 65.1 84.5 67.5 69.0 69.8 65.1 85.2 69.0 69.8 65.1 84.5 67.5 69.0 69.8 65.1 84.5 67.5 67.5 67.5 67.5 67.5 67.5 67.5 67	87.5	8	-	96	98.	95.1	91.1	88.1	80		53.5	63.7
73.6 77.7 79.8 81.4 61.9 80.9 82.0 62.9 62.9 91.2 91.6 81.8 81.9 73.5 63.7 57.1 81.6 81.8 77.4 81.9 73.5 63.7 57.1 81.8 81.4 81.9 73.5 63.7 71.4 81.9 73.5 63.7 71.4 81.9 73.5 63.7 71.4 81.9 73.5 63.7 71.4 81.9 73.5 71.4 81.9 73.5 63.7 71.4 81.9 73.5 71.9 81.9 71.4 81.2 71.4 81.2 71.4 81.2 71.4 81.2 71.4 81.2 71.4 81.5 71.4 81.2 71.4 81.4 81.2 71.4 81.2 71.4 81.4 71.4 71.4 71.4 71.4 71.4 71.4 71.4 7	71.0 69.9 70.1 74.0 17.0 77.3 77.5 79.0 17.3 77.5 79.0 17.3 77.5 79.0 17.3 77.5 79.0 17.3 77.5 79.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17	85.3	0.0	o n a	94.	96	0.46	89.1	86.0	~ 4	σ.	51.4	61.6
78.9 77.3 77.5 79.0 79.6 78.7 79.8 80.7 82.4 83.9 87.9 83.4 87.6 82.7 79.7 71.3 61.5 54.9 75.4 74.9 77.1 77.5 77.1 80.4 87.6 87.1 87.4 87.6 82.7 79.7 71.3 61.5 54.9 75.4 74.9 77.4 69.0 59.2 52.6 75.4 74.9 77.4 77.1 77.8 79.4 83.2 84.4 83.2 77.4 69.0 59.2 52.6 77.4 69.0 59.2 52.6 77.4 72.4 72.4 77.8 79.4 83.2 84.4 83.2 78.2 77.4 69.0 59.2 52.6 71.0 69.9 70.1 72.7 74.2 74.9 77.8 73.0 74.4 83.2 78.4 77.4 80.5 77.4 69.0 59.2 52.6 68.1 67.2 67.2 67.2 67.2 67.2 67.2 67.2 67.2	78.9 77.3 77.5 79.0 79.6 77.3 75.4 72.1 76.6 77.3 77.8 72.1 76.6 77.3 77.8 72.1 76.6 77.3 77.8 72.1 76.6 77.3 77.8 72.1 76.6 77.3 77.8 72.1 76.6 77.3 77.8 72.1 74.2 74.2 74.9 66.3 65.1 69.8 65.1 69.8 65.1 69.8 65.1 69.8 65.1 69.8 66.3 67.1 67.2 69.6 69.8 66.3 67.1 67.1 67.2 69.8 66.3 67.1 67.1 67.1 67.1 67.1 67.1 67.1 67.1	80.9		۵ ۵	90	91.	89.8	84.8	81.9	0 10	•	57.1	57.3
76.4 74.9 72.1 76.6 77.3 76.4 77.5 78.4 80.2 81.7 85.6 87.1 85.4 80.5 77.4 69.0 59.2 52.6 73.8 72.4 72.4 72.7 74.2 74.9 74.0 75.2 76.1 77.8 79.4 83.2 84.4 83.2 78.2 78.2 78.2 78.1 66.6 56.7 50.1 77.8 79.4 83.2 84.4 83.2 78.2 78.2 78.1 66.6 56.7 50.1 77.8 79.4 83.2 78.5 77.5 78.2 78.5 78.6 64.0 54.0 77.5 50.1 78.5 78.4 60.9 75.8 77.5 77.5 78.0 61.2 51.1 44.8 65.1 65.3 67.1 66.3 67.1 65.3 67.4 65.0 69.0 69.4 67.5 77.5 77.5 77.6 65.1 67.2 67.9 41.9 61.2 51.1 44.8 65.0 69.0 69.0 69.0 69.0 69.0 69.0 69.0 69	75.4 74.9 75.1 76.6 77.3 73.8 72.4 72.7 74.2 74.9 71.0 69.9 70.1 71.6 72.4 68.1 67.2 67.5 69.0 69.8 65.1 64.6 57.5 69.0 69.8 65.1 64.6 56.3 67.1 61.6 59.8 66.3 67.1 61.6 59.8 54.7 55.3 55.9 57.3 58.2 50.6 51.7 52.4 54.7 52.6 51.8 53.6 64.4 54.2 53.7 54.7 52.6 51.8 53.6 54.7 52.6 51.8 53.6 54.7 52.6 54.7 52.6 54.7 52.6 54.7 52.6 54.7 52.6	7.87		*	87.	89.	87.6	82.7	7.67	2	2	6.49	55.1
73.6 72.4 72.7 74.2 74.9 74.0 75.2 76.1 77.8 79.4 83.2 44.4 83.2 78.2 78.2 76.5 64.0 54.7 50.1 17.6 57.4 71.5 72.4 71.5 72.4 73.0 74.4 81.9 78.5 73.4 71.6 57.5 64.0 54.0 54.0 47.6 68.1 67.2 67.5 69.0 69.8 69.0 70.3 71.4 73.0 74.6 78.3 80.0 78.5 73.4 70.0 61.2 51.1 44.8 65.1 64.5 65.1 65.2 67.4 61.5 72.0 75.7 77.5 76.0 70.8 67.3 58.2 47.9 41.9 61.6 62.1 63.6 61.4 60.6 62.2 63.4 63.6 70.1 72.0 70.8 67.3 58.2 47.9 41.9 54.5 55.9 59.2 60.6 61.4 60.6 61.4 60.6 62.2 63.4 63.6 70.1 72.0 70.6 67.3 58.2 67.5 61.4 60.6 62.2 63.4 63.5 67.1 72.0 70.6 65.1 61.2 55.0 44.4 54.5 55.3 55.9 57.3 55.2 57.4 59.1 60.3 61.9 63.5 60.1 67.6 65.1 61.2 57.7 47.5 36.5 57.7 47.5 56.0 64.1 58.2 57.4 47.5 36.9 31.7 50.0 51.7 52.4 53.7 54.7 53.9 55.6 56.9 58.5 60.1 63.6 65.6 64.1 58.2 57.7 47.5 36.5 37.7 57.7 57.7 50.1 54.7 53.9 55.6 56.9 54.5 56.2 57.4 55.4 57.4 57.4 65.3 84.3 27.5 27.3 13.7 54.7 53.9 55.6 56.9 54.5 56.0 55.0 64.1 58.2 57.8 43.2 32.9 32.9 51.6 52.9 54.5 56.2 57.4 55.4 57.4 59.1 49.6 38.9 27.5 23.3 41.5 47.6 48.4 49.6 59.8 41.5 44.0 45.2 44.0 45.2 45.3 41.5 47.3 48.6 50.3 52.0 55.4 57.4 55.8 49.7 45.1 34.3 32.3 41.5 47.4 44.7 46.3 48.0 51.3 53.4 52.0 40.0 41.6 30.8 19.5 15.3 37.1 39.2 40.1 41.4 42.0 43.4 42.0 45.8 40.8 41.8 41.8 41.1 43.2 37.7 27.1 16.2 11.5 27.9 25.0 25.0 25.1 20.4 12.8 33.7 23.4 12.9 7.7 27.1 16.2 11.5 27.9 25.0 25.0 25.1 20.4 12.8 27.7 27.1 16.2 17.3 18.3 19.7 27.1 27.1 27.5 26.2 26.2 26.2 26.2 26.2 26.2 26.2 26	73.8 72.4 72.7 74.2 74.9 71.0 69.9 70.1 71.6 72.4 68.1 67.2 67.5 69.0 69.8 65.1 67.2 67.5 69.0 69.8 65.1 67.2 67.5 69.0 69.8 65.1 67.2 67.5 69.0 69.8 65.1 67.2 67.5 69.0 69.8 65.1 67.2 67.5 69.0 69.8 54.7 55.3 55.9 57.3 58.2 50.6 51.7 52.4 53.7 54.7 46.2 47.6 48.4 49.6 50.6 41.1 39.2 40.1 41.4 42.3 72.6 34.9 35.9 37.1 38.1 27.9 25.0 26.1 27.4 28.3 17.6 19.3 20.5 21.7 22.6	76.4	*	~	85.	87.	85.4	80.5	4.22	0	2	52.6	52.7
71.0 69.9 70.1 71.6 72.4 71.5 72.8 73.8 75.5 77.0 80.8 82.4 80.9 75.6 64.0 54.0 74.0 47.6 68.1 68.2 68.1 67.2 67.5 69.0 69.3 69.0 70.3 71.4 73.0 74.6 78.3 80.0 78.5 73.4 70.0 61.2 51.1 44.8 65.1 64.5 64.0 62.1 65.3 67.1 66.3 67.7 68.8 70.5 77.5 76.0 70.8 67.3 58.2 47.9 41.9 65.1 64.6 62.1 63.6 64.4 60.6 62.1 66.6 70.1 72.0 77.6 65.1 61.2 51.4 40.6 35.4 54.7 55.3 55.9 57.3 58.2 57.4 59.1 60.3 61.9 63.5 67.0 70.6 65.1 61.2 51.4 40.6 35.4 54.7 55.3 55.9 57.3 58.2 57.4 59.1 60.3 61.9 63.5 67.0 70.6 65.1 61.2 51.4 40.6 35.4 54.7 50.0 51.7 52.4 53.7 54.7 53.9 55.6 56.9 58.5 60.1 63.6 64.1 58.2 53.8 43.2 32.9 27.7 40.6 51.6 65.1 64.5 59.7 64.1 58.2 53.8 43.2 32.9 27.7 46.2 47.5 48.4 49.6 50.6 49.9 51.6 52.9 58.5 60.1 63.6 64.1 58.2 53.8 43.2 32.9 27.7 46.2 47.3 48.6 50.3 55.4 57.4 57.4 59.1 69.0 67.5 64.1 58.2 53.8 43.2 32.9 15.3 48.6 50.3 52.0 55.4 57.4 57.4 57.1 49.6 38.9 27.5 27.5 47.3 48.6 50.3 52.0 55.4 57.4 57.4 57.1 49.6 38.9 27.5 27.5 47.3 48.6 50.3 52.0 55.4 57.4 57.4 49.6 38.9 27.5 27.9 30.2 40.1 41.4 42.3 41.5 43.4 44.7 46.3 48.0 49.0 51.3 53.4 52.0 49.7 45.1 34.3 32.3 33.7 23.4 32.3 33.7 23.4 32.3 33.7 23.4 32.3 33.7 23.4 32.3 33.7 23.4 32.3 33.7 23.4 32.3 33.7 24.7 20.1 27.5 33.2 22.7 26.3 22.1 20.4 12.8 32.8 14.1 13.2 14.4 12.8 15.6 16.3 15.1 17.3 18.3 19.7 21.0 23.5 26.3 22.1 20.4 12.8 32.8 33.8 33.8 33.8 33.8 33.8 33.8 3	71.0 69.9 70.1 71.6 72.4 68.1 69.8 65.1 64.5 69.0 69.8 65.1 64.5 69.0 69.8 65.1 64.5 69.0 69.8 65.1 64.6 59.2 67.3 67.1 61.0 59.8 59.2 60.6 61.4 54.7 55.3 55.9 57.3 58.2 50.6 47.6 48.4 49.6 50.6 41.4 43.2 44.0 49.6 50.6 41.4 43.2 44.0 41.4 45.3 46.2 37.1 39.2 40.1 41.4 42.3 37.1 33.4 22.9 25.0 26.1 27.4 23.3 17.6 19.3 20.5 21.7 22.6	74.0	_	00	83.	• † •	83.2	78.2	75.1	9	~	50.1	50.3
68.1 67.2 67.5 69.0 69.8 69.0 70.3 71.4 73.0 74.6 78.3 80.0 78.5 73.4 70.0 61.2 51.1 44.8 65.1 65.1 66.2 77.6 77.5 76.0 70.8 67.3 58.2 47.9 41.9 65.1 65.2 67.9 69.4 73.0 77.5 76.0 70.8 67.3 58.2 47.9 41.9 61.9 61.6 62.1 65.2 67.4 63.6 65.1 66.2 67.4 73.0 77.6 65.1 61.2 55.0 44.6 35.8 61.9 62.2 67.6 65.1 61.2 51.4 40.6 35.4 54.7 55.3 55.9 57.2 61.6 65.1 61.2 51.4 40.6 57.0 73.6 65.1 61.2 51.4 40.6 57.0 73.6 65.1 61.2 51.4 40.6 57.7 40.6 57.1 61.8 57.7 47.5 56.9 57.7 47.5 56.9 57.7 47.5 56.9 57.7 47.5 56.9 57.7 47.5 56.9 57.7 47.5 56.9 57.7 47.5 57.8 43.2 37.7 47.6 48.4 49.6 50.6 49.9 51.6 52.9 58.5 60.1 63.6 65.6 64.1 58.2 53.8 43.2 32.9 27.7 45.1 49.6 38.9 27.7 45.1 39.2 44.0 47.5 48.4 49.6 50.6 49.9 51.6 52.9 54.5 56.9 59.7 61.7 60.1 54.1 49.6 38.9 27.5 23.3 41.5 47.3 48.6 50.3 52.0 55.4 57.4 57.4 49.7 45.1 34.3 23.7 23.4 44.7 46.3 55.4 57.4 57.4 57.0 41.9 37.7 27.1 16.2 11.5 27.9 30.2 31.2 32.5 33.4 33.3 34.5 33.7 33.7 33.4 33.3 34.5 33.7 24.1 43.2 34.2 33.7 23.4 12.9 33.7 27.1 16.2 11.5 27.9 26.1 27.4 28.3 27.1 27.3 24.7 27.3 23.2 26.2 26.3 27.1 20.4 12.8 33.8 14.8 14.8 44.1 43.2 27.7 27.1 20.4 12.8 33.8 16.3 27.1 20.4 12.8 33.8 16.3 27.1 20.4 12.8 33.8 14.8 16.2 26.3 27.1 20.4 12.8 33.8 14.8 14.8 47.1 20.4 12.8 27.8 29.3 27.8 27.8 29.8 40.0 27.7 27.1 27.1 27.1 27.1 27.1 27.1 27.1	68.1 67.2 67.5 69.0 69.8 65.1 69.8 65.1 69.8 65.1 69.6 5 6.2 65.3 67.1 68.5 59.5 65.2 65.5 65.4 65.5 65.1 65.5 65.1 65.5 65.1 65.5 65.1 65.2 65.3 65.3 65.3 65.3 65.2 65.2 65.2 65.2 65.2 65.2 65.3 65.3 65.3 65.3 65.2 65.2 65.3 65.3 65.3 65.3 65.3 65.3 65.3 65.3	71.5	8	S	80.	82.	80.9	75.8	72.6	0.49		47.6	47.8
65.1 b4.5 b4.9 66.3 67.1 66.8 70.5 72.0 75.7 77.5 76.0 70.8 67.3 58.2 47.9 44.9 61.9 61.6 62.1 63.6 64.4 b3.6 65.1 66.2 b7.9 69.4 73.0 74.9 73.4 68.2 64.5 55.0 44.4 38.8 61.9 61.6 62.1 63.6 64.4 b3.6 65.1 66.2 b7.9 69.4 73.0 74.9 73.4 68.2 64.5 55.0 44.4 38.8 61.9 61.6 62.1 63.6 64.4 b3.6 65.1 66.2 b7.9 69.4 73.0 74.9 73.4 68.2 64.5 55.0 44.4 38.8 61.9 61.6 62.1 63.6 64.9 53.7 54.7 53.9 56.5 63.4 63.5 67.0 69.0 67.5 61.8 57.7 47.5 36.6 35.4 64.7 55.3 58.2 57.4 63.7 54.7 53.9 55.6 56.9 58.5 60.1 63.6 65.6 64.1 58.2 53.8 43.2 33.7 23.3 64.6 49.6 51.7 52.4 53.7 54.7 53.9 54.5 56.9 58.5 60.1 63.6 65.6 64.1 58.2 53.8 43.2 32.9 18.9 64.6 49.6 51.7 52.4 63.7 54.7 53.9 54.5 56.9 58.5 60.1 63.6 65.6 64.1 58.2 53.8 43.2 32.9 18.9 83.4 43.2 44.0 45.3 46.2 45.5 47.3 48.6 50.3 52.0 55.4 57.4 55.8 49.7 45.1 34.3 27.2 33.4 42.3 44.7 46.3 48.0 51.3 53.4 52.0 49.7 45.1 34.3 37.1 33.1 33.1 33.1 33.1 33.1 33.1 33	65.1 b4.5 b4.9 66.3 b7.1 61.9 61.6 62.1 63.6 64.4 54.7 55.3 55.9 56.3 58.2 50.6 51.7 52.4 53.7 54.7 46.2 47.6 48.4 49.6 50.6 41.4 33.2 40.1 41.4 42.3 37.1 39.2 40.1 41.4 42.3 32.6 34.9 35.9 37.1 38.1 22.9 25.0 26.1 37.1 38.1 22.9 25.0 26.1 27.4 28.3 17.6 19.3 20.5 21.7 22.6	69.0	+	0	78.	80.	78.5	73.4	70.0	61.2	-	8.4.	45.1
61.9 61.6 62.1 63.6 64.4 63.6 65.1 66.2 67.9 69.4 73.0 74.9 73.4 68.2 64.5 55.0 44.4 38.8 58.5 58.6 65.1 61.2 51.4 40.6 35.4 68.5 58.6 59.2 60.6 61.4 60.6 62.2 63.4 65.0 65.0 70.6 65.1 61.2 51.4 40.6 35.4 55.4 55.0 61.0 70.6 65.1 61.2 51.4 40.6 35.4 55.4 51.2 51.4 40.6 35.4 40.6 31.7 52.4 51.7 52.4 51.7 52.4 51.7 52.4 51.7 52.4 51.7 52.4 51.7 52.4 51.7 52.4 51.7 52.4 51.7 52.4 51.7 52.4 51.7 52.4 51.7 52.4 51.7 52.4 51.7 51.0 51.0 51.0 51.0 51.0 51.7 51.0 51.7 51.0 51.7 51.0 51.7 51.0 51.7 51.0 51.0 51.0 51.0 51.0 51.0 51.0 51.0	61.9 61.6 62.1 63.6 64.4 58.5 58.6 59.2 61.6 61.4 50.7 55.3 55.9 57.3 58.2 50.6 51.7 52.4 53.7 54.7 46.2 47.6 48.4 49.6 50.6 41.4 43.2 44.0 45.3 46.2 37.1 39.2 40.1 41.4 42.3 32.6 34.9 35.9 37.1 38.1 27.9 25.0 26.1 27.4 28.3 17.6 19.3 20.5 21.7 22.6	66.3	8	2	75.	77.	76.0	70.8	67.3	58.5	6	1.9	42.3
58.5 58.6 59.2 60.6 61.4 60.6 62.2 63.4 65.0 66.6 70.1 72.0 70.6 65.1 61.2 51.4 40.6 35.4 54.7 55.3 58.2 57.3 58.2 57.4 59.1 60.3 61.9 67.5 67.0 67.5 61.8 57.7 47.5 36.5 31.7 50.6 51.1 52.4 53.7 54.7 53.9 55.6 56.9 56.9 58.5 67.0 69.0 67.5 61.8 57.7 47.5 36.5 31.7 50.6 51.7 47.5 56.9 51.7 47.5 56.9 51.7 47.5 57.7 47.5 56.9 51.7 57.7 47.5 57.7 57.7	58.5 58.6 59.2 60.6 61.4 54.7 55.3 55.4 57.3 58.2 50.6 51.7 52.4 53.7 54.7 41.4 43.2 44.0 45.3 46.2 37.1 39.2 40.1 41.4 42.3 32.6 34.9 35.9 37.1 38.1 27.9 25.0 26.1 27.4 28.3 17.6 19.3 20.5 21.7 22.6	63.6	2	6	73.	74.	73.4	68.2	64.5	92.0	*	38.8	39.4
54.7 55.3 55.9 57.3 58.2 57.4 59.1 60.3 61.9 63.5 67.0 69.0 67.5 61.8 57.7 47.5 36.5 31.7 51.0 51.0 51.7 52.4 53.7 54.7 53.9 55.6 56.9 58.5 61.1 63.6 65.6 64.1 58.2 53.8 43.2 32.0 27.5 51.7 47.6 48.4 49.6 51.6 52.9 58.5 61.1 61.1 61.7 61.1 61.1 49.6 38.9 27.5 23.3 41.6 52.9 51.3 52.4 57.4 55.8 49.7 45.1 49.6 38.9 27.5 23.3 41.8 44.7 46.3 52.0 55.4 57.4 55.8 49.7 45.1 34.3 22.9 18.9 37.1 39.2 40.1 41.4 42.3 41.5 43.4 44.7 46.3 48.0 51.3 53.4 52.0 40.1 41.6 31.8 19.5 11.5 51.8 41.8 41.9 37.7 27.1 16.2 11.5 27.9 30.2 31.2 32.5 33.4 32.3 34.5 35.7 37.2 38.8 41.8 44.1 43.2 37.5 23.4 12.9 7.7 27.1 16.2 11.5 27.9 20.1 27.4 28.3 27.7 27.1 27.7 20.1 27.5 33.7 22.8 16.8 4.0 17.8 11.8 11.8 11.8 11.8 11.8 11.8 11.8	54.7 55.3 55.9 57.3 58.2 50.6 51.7 52.4 53.7 54.7 41.4 43.2 44.0 45.5 46.2 37.1 39.2 40.1 41.4 42.3 32.6 34.9 35.9 37.1 38.1 27.9 25.0 26.1 27.4 28.3 17.6 19.3 20.5 21.7 22.6	9.09	4	0	70.	72.	70.6	65.1	61.2	51.4	9	35.4	36.1
50.6 51.7 52.4 53.7 54.7 53.9 55.6 56.9 58.5 60.1 63.6 65.6 64.1 58.2 53.8 43.2 32.0 27.7 46.2 48.4 49.6 50.6 49.9 51.6 52.9 54.5 56.2 59.7 61.7 60.1 54.1 49.6 38.9 27.5 23.3 46.4 43.6 51.6 52.9 54.5 56.2 59.7 61.7 60.1 54.1 49.6 38.9 27.5 23.3 41.4 42.3 48.6 50.3 52.0 55.4 57.4 55.4 49.7 45.3 30.8 19.5 13.3 37.1 39.2 40.1 41.4 42.3 41.5 43.4 44.7 46.3 48.0 51.3 53.4 52.0 40.0 41.6 30.8 19.5 15.3 37.1 33.4 32.3 34.5 33.7 23.8 41.8 44.1 43.2 37.7 27.1 16.2 11.5 27.9 30.2 31.2 32.5 33.4 22.9 23.1 33.4 23.3 34.5 33.7 23.4 12.9 25.0 26.1 27.4 28.3 27.1 27.5 28.3 38.7 38.1 27.7 27.9 19.8 9.8 4.0 17.6 19.3 24.7 22.7 22.7 22.3 22.7 22.7 22.9 21.6 26.1 27.4 28.3 27.7 27.1 16.3 19.8 19.8 19.8 12.1 13.2 14.4 15.6 16.3 15.1 17.3 18.3 19.7 21.0 23.5 26.2 26.3 22.1 20.4 12.8 3.8	50.6 51.7 52.4 53.7 54.7 416.2 47.6 48.4 49.6 50.6 416.4 43.2 44.0 45.5 46.2 37.1 39.2 40.1 41.4 42.3 32.6 34.9 35.9 37.1 38.1 27.9 25.0 26.1 27.4 28.3 17.6 19.3 20.5 21.7 22.6	57.4	2	5	070	69	67.5	61.8	21.19	47.5	2	31.7	32.5
46.2 47.6 48.4 49.6 50.6 49.9 51.6 52.9 54.5 56.2 59.7 61.7 60.1 54.1 49.6 38.9 27.5 23.3 41.4 43.2 46.6 50.3 52.0 55.4 57.4 55.8 49.7 46.1 34.3 22.9 146.9 37.1 39.2 40.7 46.3 46.0 51.3 53.4 52.0 41.6 30.8 19.5 16.3 37.2 40.1 41.8 46.8 48.9 47.8 41.9 37.7 27.1 16.2 11.5 27.9 30.2 30.2 40.4 42.0 43.9 47.8 41.9 37.7 27.1 16.2 17.7 27.9 30.2 30.2 40.4 42.0 43.8 41.8 44.1 43.2 33.7 23.4 12.9 7.7 27.9 30.2 20.2 20.2 20.2 20.2 20.2 20.2	46.2 47.6 48.4 49.6 50.6 41.4 43.2 44.0 45.3 46.2 37.1 39.2 40.1 41.4 42.3 32.6 34.9 35.9 37.1 38.1 27.9 30.2 31.2 32.5 33.4 22.9 25.0 26.1 27.4 28.3 17.6 19.3 20.5 21.7 22.6	53.9	6	2	63.	65.	64.1	58.5	53.8	43.2		27.7	28.6
41.4 43.2 44.0 45.3 46.2 45.5 47.3 48.6 50.3 52.0 55.4 57.4 55.8 49.7 45.1 34.3 22.9 18.9 37.1 39.2 40.1 41.4 42.3 41.5 43.4 44.7 46.3 48.0 51.3 53.4 52.0 40.0 41.6 30.8 19.5 15.3 37.1 39.2 40.1 41.4 42.4 42.4 43.0 43.0 40.8 41.9 37.7 27.1 16.2 11.5 27.9 34.2 33.2 33.4 32.3 34.5 35.7 37.2 38.8 41.8 44.1 43.2 37.5 33.7 23.4 12.9 7.7 22.9 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	41.4 43.2 44.0 45.3 46.2 37.1 39.2 40.1 41.4 42.3 22.6 34.9 35.9 37.1 38.1 27.9 30.2 31.2 32.5 33.4 22.9 25.6 26.1 27.4 28.3 17.6 19.3 20.5 21.7 22.6	6.64	6	2	59.	61.	60.1	54.1	9.64	38.9	2	23.3	24.3
37.1 39.2 40.1 41.4 42.3 41.5 43.4 44.7 46.3 48.0 51.3 53.4 52.0 40.0 41.6 30.8 19.5 15.3 52.6 34.9 35.9 37.1 38.1 37.1 39.2 40.4 42.0 43.0 46.8 48.9 47.8 41.9 37.7 27.1 16.2 11.5 27.9 30.2 31.2 32.5 33.4 32.3 34.5 35.7 35.7 35.8 41.8 44.1 43.2 37.5 23.4 12.9 7.7 22.6 24.8 12.9 7.7 22.6 24.8 13.8 23.7 23.4 12.9 7.7 17.8 13.9 25.5 24.8 15.2 24.8 16.2 6.8 4.0 17.6 19.3 20.5 21.7 22.6 21.3 23.7 26.7 20.3 36.7 33.5 26.2 26.3 22.1 20.4 12.8 3.8 4.0 12.1 13.2 14.4 15.6 16.3 15.1 17.3 18.3 19.7 21.0 23.5 26.2 26.3 22.1 20.4 12.8 3.8	37.1 39.2 40.1 41.4 42.3 32.6 34.9 35.9 37.1 38.1 27.9 30.2 31.2 32.5 33.4 22.9 25.0 26.1 27.4 28.3 17.6 19.3 20.5 21.7 22.6	45.5	9	~	55	57.	55.8	49.7	45.1	34.3	6	6.81	19.8
32.6 34.9 35.9 37.1 33.1 33.2 40.4 42.0 43.0 46.8 48.9 47.8 41.9 37.7 27.1 16.2 11.5 1 27.9 30.2 31.2 32.5 33.4 32.3 34.5 35.7 37.2 38.8 41.8 44.1 43.2 37.5 33.7 23.4 12.9 7.7 22.9 25.0 26.1 27.4 28.3 27.1 29.4 30.5 31.9 33.5 36.3 38.7 38.1 32.7 29.3 19.8 9.8 4.0 17.6 19.3 20.5 21.7 22.6 21.3 23.7 24.7 20.1 27.5 30.2 32.7 32.5 27.5 24.8 16.2 6.8 4.0 12.1 13.2 14.4 15.6 16.3 15.1 17.3 18.3 19.7 21.0 23.5 26.2 26.3 22.1 20.4 12.8 3.8	32.6 34.9 35.9 37.1 38.1 27.9 30.2 31.2 32.5 33.4 22.9 25.0 26.1 27.4 28.3 17.6 19.3 20.5 21.7 22.6	41.5	1	2	51.	53.	52.0	0.04	41.6	30.8	2	15.3	16.1
27.9 30.2 31.2 32.5 33.4 32.3 34.5 35.7 37.2 38.8 41.8 44.1 43.2 37.5 33.7 23.4 12.9 7.7 22.9 25.0 26.1 27.4 28.3 27.1 29.4 30.5 31.9 33.5 36.3 38.7 38.1 32.7 29.3 19.8 9.8 4.0 17.6 19.3 20.5 21.7 22.6 21.3 23.7 24.7 26.1 27.5 30.2 32.7 32.5 27.5 24.8 16.2 6.8 .4 12.1 13.2 14.4 15.6 16.3 15.1 17.3 18.3 19.7 21.0 23.5 26.2 26.3 22.1 20.4 12.8 3.8	27.9 30.2 31.2 32.5 33.4 22.9 25.0 26.1 27.4 28.3 17.6 19.3 20.5 21.7 22.6	37.1	4		46.	48.	47.8	41.9	37.7	27.1	16.2	1.5	12.2
22.9 25.6 26.1 27.4 28.3 27.1 29.4 30.5 31.9 33.5 36.3 38.7 38.1 32.7 29.3 19.8 9.8 4.0 17.6 19.3 20.5 21.7 22.6 21.3 23.7 24.7 26.1 27.5 30.2 32.7 32.5 27.5 24.8 16.2 6.8 .4 12.1 13.2 14.4 15.6 16.3 15.1 17.3 18.3 19.7 21.0 23.5 26.2 26.3 22.1 20.4 12.8 3.8	22.9 25.0 26.1 27.4 28.3 17.6 19.3 20.5 21.7 22.6	32.3	2		41.	* * *	43.2	37.5	33.7	23.4	12.9	7.7	8.1
17.6 19.3 20.5 21.7 22.6 21.3 23.7 24.7 26.1 27.5 30.2 32.7 32.5 27.5 24.8 16.2 6.8 .4 12.1 13.2 14.4 15.6 16.3 15.1 17.3 18.3 19.7 21.0 23.5 26.2 26.3 22.1 20.4 12.8 3.8	17.6 19.3 20.5 21.7 22.6	27.1	2		36.	38.	38.1	32.7	29.3	19.8	9.8	4.0	3.9
12.1 13.2 14.4 15.6 16.3 15.1 17.3 18.3 19.7 21.0 23.5 26.2 26.3 22.1 20.4 12.8 3.		21.3	1		30.	32.	32.5	27.5	24.8	16.2	6.8	4.	
	12.1 13.2 14.4 15.6 16.3	15.1	2		23.	26.	26.3	22.1	20.4	12.8	3.8		

(TABLE:	TONE-0	TONE-CORRECTED, 1		A-WEIGHT	3 9	OVERALL S	SOUND LE	LEVEL (1	(DBA)							DENT	IDENTIFICATIONS OMEGA 8.2	IONS	
-		LONGITO	5	ANGLE A	2			1000								NI O	00-4-0	170-4	
(NOISE SO	SOURCE/SUBJECT:	JB JECT			OPERA	OPERATION:	GINIO	2 702	N 0 0	2	METEOROL	. 06Y t	1			AIRC	RAFT	T CODE	E 029
ENG.	ENG. J33-A-35 GROUND RUNUP	-35 JP			. w	INGLE	ENGINE				AB.		1 = 1	NIN		PROF 19	PROFILE VE	SSI	A
										0 0	ELTA	=	.0 0B			PAGE	29		
									ANGLE	30.	GREES								
(FEET)	•	3	20	30	9	20	00	2	80	06	130	110	150	130	146	150	160	170	180
(200	90.5	88.2	68.0		90.1	98.6	88.5	90.3	91.7	93.5	98.3	99.5	4.76	92.5	89.1	82.2	71.9	65.1	65.0
(250	87.9		85.8		6.70	86.4	86.4	88.2	9.68	91.3	96.1	4.26	95.3	4.96	87.1	80.2	8 . 69	63.0	62.8
315	85.7		83.6		85.7	84.2	2.49	86.1	87.4	89.5	93.9	85.2	93.2	88.3	85.0	78.1	2.19	6.09	2.09
00+	83.5	01.4	81.3		83.5	85.0	82.0	83.9	85.3	87.0	91.6	93.0	91.0	86.2	85.9	16.0	65.5	28.7	58.5
665)	80.9		73.0		81.2	8.62	79.8	81.7	93.1	84.8	89.3	8 .06	88.9	84.0	80.8	73.8	63.3	26.5	56.3
630	18.4	76.	16.6	77.9	78.8	4.22	17.5	19.5	80.8	82.5	87.0	88.5	86.7	81.8	18.5	71.5	61.0	24.5	24.0
0 9 0	15.1	74.2	74.2	15.5	10.4	75.1	75.2	77.5	78.5	80.2	9.4.8	86.2	84.4	19.5	76.2	69.1	58.5	51.7	51.6
_																			
1400	73.0			73.0	73.9	72.6	72.8	24.8	76.1	77.8	85.2	83.0	82.1	77.2	73.7	66.5	52.9	49.5	0.64
1250	70.1			70.3	71.3	70.1	70.3	15.4	73.7	15.4	19.1	81.4	19.1	14.7	71.1	63.6	55.9	4094	40.4
1600	67.1		999		68.7	4.19	2.19	69.6	71.1	72.9	77.1	78.8	77.3	72.1	68.3	9.09	1.64	43.5	43.5
5000	63.8	63.4			69.6	2.49	65.1	67.3	68.5	70.2	74.4	76.2	14.7	69.5	65.5	27.4	46.3	40.4	40.6
(2500	4.09				03.0	61.7	62.2	4.49	1.59	67.4	71.5	73.4	71.9	66.5	62.3	53.8	45.5	37.0	37.3
(3150	26.7				59.8	58.5	59.1	61.3	9.79	64.3	68.4	70.3	68.8	63.1	28.1	6.64	38.3	33.3	33.7
0004	55.5		53.6	24.7	25.9	24.7	55.6	27.7	29.0	66.9	2 . 40	9 • 9 9	65.1	29.5	24.6	7.54	33.4	58.9	29.5
2006	4.74		49.3	20.4	51.5	20.5	51.6	53.5	24.9	299	60.5	65.5	6.09	24.8	2005	40.3	58.6	24.3	25.0
6330	45.5	43	* * *	45.8	6.94	45.9	47.3	49.0	50.2	52.3	20.0	57.9	56.3	2005	45.6	35.3	23.6	19.5	20.3
9330	37.5	39.6	+0.+	41.6	45.6	41.7	43.4	44.0	40.4	48.2	51.6	53.6	2.29	7.94	41.8	31.3	19.9	15.6	16.3
4.0000	12.6	24.0	0	17.4	4 4	17 4	20 2	7 67	0 67	7 27	4		8 1.7	0 14	17.72	27.1	16.0	4	12.0
12500	27.9				33.6	32.3	34.5	35.7	37.2	38.0	11.8	1	44.0	37.5	33.7	23.4	12.9	7.7	8.1
16000	22.9	25.0			28.3	27.1	29.4	30.5	31.9	33.5	36.3	38.7	38.1	32.7	29.3	19.8	9.8	4.0	3.9
20000	17.6				22.6	21.3	23.7	24.7	26.1	27.5	30.2	32.7	32.5	27.5	24.8	16.2	6.8	3.	
(25000	12.1	13.2		15.6	16.3	15.1	17.3	18.3	19.7	21.0	23.5	26.2	26.3	22.1	50.4	12.8	3.8		
,																			
(-	******							1 1 1 1 1									-

	STANCE = 250 F					A 8.2
NOISE SOUR T-33A ENG. J GROUND	E SOURCE/SUBJECT: T-33A AIRCRAFT ENG. J33-A-35 GROUND RUNUP	OPERATIONS C ENGINE SINGLE	RUNUP, 50% RPM ENGINE	EOROLOGY: TEMP BAR PRES REL HUMI	= 59 F S = 29.92 IN HG D = 70 %) RUN 02 1) AIRCRAFT CODE 029 1) PROFILE VERSION A 19 JAN 76 1) PAGE J2
		P=PNLT		A=AL	T=ALT	
0					A T	· · · · · · · · · · · · · · · · · · ·
10					. A T .	9.
20		•		•	A T	
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R 110						AT . P
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1/3 1/3 DIS	NORMALIZED 1/3 OCTAVE DISTANCE =	SOUND BAND 256	O PRE	ESSURE	LEVEL	L (08)	•									ENTIF MEGA EST 7		ION:	
NOISE SOURCE/SUBJECT T-33A AIRCRAFT ENG. J33-A-35 GROUND RUNUP	SOURCE/SUBJEC A AIRCRAF J33-A-35 ND RUNUP	. L		SEE	RATIONS AXIMUM S INGLE EN	FPOWE	ok m			METER TEI BAI	EOROLOGY EMP AR PRESS EL HUMID	641 SS = 2 ID = 0.	9.92 7.0 7.0 0 08	N N N H G		AIRCRAFT OPERATION PROFILE VE 19 JAN 76 PAGE C3	TON COLON CO	CODE O	29 1031 A
BAND CENTER FREQ (HZ)	•	16	20	36	64	3	0.9	7.0 AN	ANGLE (DEGRE 90	ES)	110	120	130	140	150	160	170	180
50	14	22	16	92	62	7.8	80	81	91	94	88	91	96	98	100	86	46	7.1	7.1
63	11	7.8	11	90	82	80	81	83	85	87	89	93	100	101	103	101	93	89	67
96	62	78	62	82	90	82	83	63	87	89	9.0	46	100	103	104	101	95	65	99
100	81	81	81	83	82	8 4	85	96	88	91	95	96	102	106	106	66	87	99	65
125	40	84	83	87	85	87	88	68	91	93	76	96	104	110	109	101	98	29	9
160	92	84	86	88	87	88	25	06	46	46	96	86	104	112	110	101	85	65	62
200	18	98	88	87	87	83	68	92	93	46	96	66	102	110	109	66	87	63	61
250	87	40	96	85	92	8 9	88	91	31	76	32	98	101	106	107	26	87	61	60
315	28	85	28	87	87	68	68	06	91	34	96	66	103	105	106	96	98	49	61
904	94	87	96	88	90	68	91	95	95	96	98	101	105	107	105	76	85	62	60
500	81	87	89	89	91	91	35	46	96	96	66	102	105	106	104	88	90	29	55
630	29	96	87	88	90	91	93	96	96	98	98	100	103	104	66	83	92	25	53
900	85	85	87	18	06	68	91	91	46	96	66	101	102	101	66	85	14	24	51
1000	83	83	85	98	87	89	91	93	95	96	96	66	66	101	46	82	7.1	52	48
1250	7.8	83	85	83	84	86	20	68	95	16	96	66	66	96	95	80	7.1	20	46
1600	62	81	82	83	94	68	83	68	93	95	76	95	16	96	88	92	68	64	45
2000	75	80	80	83	40	88	88	87	91	93	46	95	16	95	87	22	29	8 4	t
2500	14	78	62	81	81	83	87	83	90	95	95	93	95	91	83	73	69	94	42
3150	78	82	82	9.4	82	83	85	82	88	83	06	91	95	98	80	69	63	94	40
4000	73	78	18	90	7.8	81	9 4	82	98	87	89	91	95	95	80	29	61	44	39
5000	69	14	15	62	11	62	83	94	86	87	87	68	90	83	18	9	29	41	36
6300	29	14	75	11	25	7.8	81	82	87	98	98	87	88	81	1.4	49	25	39	34
9300	63	72	73	92	14	11	83	81	89	98	90	88	87	81	73	19	52	37	33
10000	9	20	73	73	7.5	15	8.0	62	87	84	48	88	87	62	72	61	51	35	32
							N											1	-

XXX = EXTRAPOLATED OR INTERPOLATED SPL

NOISE SOU	AS A	FUNCTION	90	ANGLE	AND DI	DISTANCE	FROM S	SOURCE) OMEGA	GA 8.2 T 74-00	OMEGA 8.2 TEST 74-004-027	
	E SOURCE/SUBJ T-334 AIR ENG. J33-A-35 GROUND RUNUP	SOURCE/SUBJECT: -334 AIRCRAFT 46. J33-A-35	_ =		OPER	OPERATIONS MAXIMUM SINGLE	POWER			2222	METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	PRESS HUMID	= 59 = 29.92 = 70	L H X	9	A AIR	AIRCRAFT OPERATION PROFILE VE 19 JAN 76 PAGE 03	CODE	029 01031
UISTANCE (FEET)	5	10	20	36	94	5.0	0.9	20	ANGLE 80	•	(DEGREES) 90 100	110	120	130	146	150	160	170	180
203	106.4	109.1	110.1	111.		113.3		114.5	-	119.7	9				123.2	113.2	102.9	90.4	77.5
315	104.1	104.6	105.0	109.1	108.7	110.8	112.3	112.3		117.5	118.4	120.1	122.6			111.2	98.7	78.2	75.3
004	99.5		133.2	104.		106.2		107.8	10	112.9	8			119.2		106.9	96.5	73.6	70.7
2000	97.1	2.66	100.7	101.		103.8		105.4	~	110.4				116.9	10	104.6	64.3	71.3	68.4
630	94.5		98.1	66	99.1	101.3		103.0		107.9	138.9			114.5	0	102.1	91.9	68.89	65.9
	91.0	2 ** 5	12.4	•		•	100.0	100.5	+	105.6	2	7.901	111.0	116.6	103.0	33.5	**	7.99	63.
1000	89.2	91.4	95.6	93.			97.2	97.8	100.0		.03.	105.6	108.4	109.7	107.1	97.0	86.8	63.5	69.5
1250	80.4		89.8	90.			94.2	95.6	97.6		.00	102.9	105.7	107.1	104.5	84.2	84.1	60.9	57.4
1630	83.4	85.2	90.9	87.			91.0	92.1	4.46		97.	6.66	102.8	104.2	101.7	91.3	81.1	57.3	54.5
2000	83.3	62.1	85.8	8			87.7	69.0	91.2		94.	96.9	8.66	101.3	99.7	88.1	78.0	53.9	50.7
2150	77.0	79.4	80.1	80.7	41.9	82.9	84.3	85.0	87.8	9.0	91.0	93.0	96.3	97.5	6.46	84.1	74.0	49.1	45.7
0070	9.69	7.0.0	71.7	72.			76.2	77.8	79.5			45.0	38.	88.0	86.4	74.6	64.5	36.0	33.65
2000	64.3	65.1	6.09	67.			71.5	73.2	74.9		78.	80.6	83.3	84.2	81.7	69.2	58.8	29.4	23.6
6300	59.5	60.09	61.3	62.			60.99	68.3	6.69		73.	75.8	78.4	79.3	76.8	63.7	53.0	19.9	12.5
9030	55.1	56.0	57.8	58.			02.3	64.2	65.7		.69	71.6	74.5	75.6	73.3	60.1	48.9	11.8	1.4
10001	50.3		53.3	53.	55.5	56.	91.29	29.1	61.2	63.0	9 * + 9	4.19	10.4	711.7	69.5	2.95	44.3	3.8	
12500	44.9		48.3	49.			55.5	24.7	56.3	58.3	89.8	62.7	62.6	67.4	65.3	55.0	38.6		
16900	38.4	40.0	45.4	45.		+5.	6.94	49.1	51.0	55.9	24.6	57.0	60.09	62.7	2.09	47.1	32.7		
20000	31.0	35.8	35.6			38.	40.0	45.5	1.44	46.9	48.6	51.8	55.4	57.4	55.5	41.4	25.8		
25000	14.9	23.	27.6	27.		30.4	31.8	3+.5	37.3	39.4	.41.2	45.0	0.64	51.3	9.64	34.8	14.4		

IN C. MOI	33-A-RUNU	RCE/SUBJECT!	:	-		LIST ANCE		SOURCE										74-004-027	
DISTANCE		35	-	i	5	1 2	POWE			2000	METEOROLOGY: TEMP BAR PRES REL HUMI	PRESS HUMID	= 59 = 29.92 = 70	T HX	9	-) RUN 03) AIRCRAF) OPERATI) PROFILE) 19 JAN) PAGE E	AIRCRAFT OPERATION OPERATE	SODE SSION	029 01031 A
(FEET)	0	3	20	30	3	5.0	0,0	7.0	ANGLE	0.056	REES)	116	120	130	140	150	160	170	180
		110.4	111.2	112.3	111.0	113.3	114.6	114.5	-	119.7	120.6	m	124.7	125.5	123.2	113.2	102.9	83.4	77.5
315 10	103.3	108.2	108.9	110.1	108.7	110.8	112.3	112.3	115.9	117.5	118.4	120.1	122.6	123.4	121.1	111.2	190.8	78.2	73.0
			104.3		104.1	106.2	107.7	107.8	0	112.9	113.8	מו	118.1	119.2	116.8	106.9	96.5	73.6	70.7
			101.8		101.6	103.8	105.2	105.4	1	116.4	1111.4	N	115.8	116.9	114.5	104.6	94.3	71.3	68.4
950	96.0	4.96	99.5	100.3	99.1	101.3	102.7	103.6	- :	107.9	108.9	~ 0	113.5	114.6	112.0	102.1	91.9	68.8	65.9
	2000	33.0	30.		30.0	200		100.0	+	1.00.1	100.0	v	11110	7.711	103.0	23.2	***	7.00	6000
	90.06	92.7	93.6	94.5	94.0		97.2	97.8	100.6	102.4	103.5	.0	108.4	1.99.1	107	97.0	86.8	63.5	60.9
	87.8	63.5	90.6	91.4	91.2	92.9	34.2	95.0	9.76	66.5	100.6	•	105.7	107.1	104	2.46	84.1	60.5	57.4
	84.9	80.5	87.9	88.3	88.3		91.0	92.1	4.45	90.4	97.5	•	102.8	104.2		91.3	81.1	57.3	24.5
	81.6	83.4	84.9		85.3		87.7	89.0	91.5	93.1	94.3	00	99.8	101.3	98	88.1	78.0	53.9	50.7
	10.4	79.7	81.1	81.7	61.9		84.3	9.00	87.8	89.6	91.6	0	96.3	97.5	96	84.1	24.0	1.64	45.7
2100		1200	73.5		7 2 7		25.00	22.0	2000	00.0			30.00	000		77. 6	0 7.0	36.0	20.62
	05.1	6.59	67.6		6 9 9	7 1	71.5	73.2	74.0	75.8	78.3	83.6	83.3	84.2	81.7	69.2	28.8	7.62	23.6
	59.8	9.09	62.3		64.0		66.5	60.3	69.3	71.8	73.4	20	78.4	79.3	76.	63.7	53.0	19.9	12.5
	55.3	50.5	58.3	58.5	59.9		62.3	64.2	65.7	9.19	69.1	.0	74.5	75.6		60.1	48.9	11.8	1.4
10000 5	53.3	51.3	53.3	53.7	55.5	26.2	57.0	2.65	01.2	63.0	9.49	67.4	4.07	71.7	69.5	2095	44.3	3.8	
	6.44	45.9	40.3	48.8	20.6	51.3	55.5	24.7	50.3	58.3	59.8	62.7	62.9	4.29	65.3	52.0	38.6		
	38.4	47.0	45.4		45.0	45.0	6.94	49.1	51.0		24.6	57.6	69.6	62.7	60.7	47.1	32.7		
20330 3	31.0	32.8	35.6	35.6	37.9	38.7	40.0	45.5	1.44		48.6	51.8	55.4	57.4	55,5	41.4	25.8		
	19.9	23.3	27.6		30.3	30.4	31.8	34.5	37.3	39.4	41.2	45.0	0 - 64	51.3	40.64	3 72	1 7 7		

30. ALRORAFT (OPERATION:) HEFERROLOGY: STATE STA		AS A F	AS A FUNCTION OF	N 0F A	AS A FUNCTION OF ANGLE A	NO DISTANCE	•	FROM S	SOURCE								OMEGA	OMEGA 8.2 TEST 74-064-02	A 6.2 74-064-027	
11.0 20 30 4.0 50 60 70 80 100 110 120 130 140 150 130 140 150 130 140 150 13.0 140 150 13.0 140 150 13.0 140 150 13.0 140 140 140 140 140 140 140 140 140 14	401SE SOU T-33A ENG. GROUN	RCE/SU A J33-A- D RUNU	BJECT: IRCRAF 35	-		OPER		POWER				TEN TEN BAR BAR REL	PRESS HUMIC		L HX	ي	PROPERTY DAGE	CRAFT RATION FILE VE JAN 76	CODE CODE RSION	029 01031
93.9 95.6 97.1 97.0 98.8 100.3 101.8 102.6 105.4 107.1 108.4 110.3 112.1 113.0 110.4 99.2 91.9 93.6 95.1 97.2 98.8 100.5 103.2 104.9 106.3 108.1 110.0 110.9 108.4 97.2 91.3 92.8 93.3 92.7 93.4 93.5 99.5 101.0 102.8 106.3 107.9 107.9 108.9 106.3 95.1 97.6 91.3 92.8 91.3 92.8 107.0 107.9 107.9 108.9 97.2 91.3 92.8 91.3 92.8 107.6 107.8 106.7 104.3 93.0 93.2 94.2 96.8 100.6 102.0 103.8 105.8 106.7 104.3 93.0 94.2 96.8 100.6 102.0 103.8 105.8 106.7 104.3 93.0 94.2 96.8 100.6 103.8 105.8 106.7 104.3 93.0 93.2 94.2 96.8 94.8 94.8 101.6 103.6 104.6 102.1 90.8 93.8 93.8 93.8 93.8 93.8 93.8 93.8 93	ISTANCE (FEET)	•	3	20	30	0,7	5.0	90	7.0	ANGL		100	116	120	130	140	150	160	170	180
91.9 93.5 95.0 95.5 95.7 98.2 99.6 100.5 103.2 104.9 106.3 104.1 110.0 116.9 108.4 97.2 93.7 91.3 92.8 93.3 94.5 96.0 97.5 98.8 100.6 102.0 102.9 106.9 106.3 95.1 87.6 93.3 94.2 99.6 100.6 102.0 102.0 107.9 106.9 106.9 106.3 95.1 87.6 93.3 94.2 98.8 101.6 102.0 107.9 106.9 106.9 106.3 95.1 87.6 93.3 94.2 98.8 101.6 102.0 103.8 105.6 106.7 104.3 93.0 83.2 84.2 85.6 83.0 89.3 99.7 99.7 99.5 99.8 101.6 103.8 105.6 102.4 99.9 93.0 83.2 84.2 85.7 87.0 89.4 91.9 93.7 95.2 97.1 101.4 102.4 99.9 86.5 84.8 84.5 84.5 84.8 84.6 85.1 87.0 87.0 86.9 93.7 95.2 87.7 95.2 87.7 95.2 87.0 87.0 87.0 86.9 93.7 95.2 87.7 95.2 87.0 87.0 87.0 86.9 93.7 95.2 87.7 95.2 87.7 95.2 87.7 95.2 87.7 95.2 87.0 87.0 87.0 87.0 87.0 87.0 87.0 87.0	200	93.9	95.6	97.1	97.0	9.86	100.3	~	102.6		107.1	108.4	m	112.1		110.4	99.5	88.9	67.0	64.1
87.6 63.1 90.7 91.6 93.8 100.6 102.0 103.8 100.6 102.0 103.8 100.6 102.0 100.1 90.2 90.3 90.6 90.6 90.8 100.6 103.6 100.6 102.1 90.8 90.8 100.6 103.6 100.1 90.8 90.8 100.6 103.6 100.1 90.8 100.6 103.6 100.1 90.8 100.6 100.1 90.8 90.8 100.6 100.1 90.8 90.8 100.6 100.1 90.8	315	91.9	93.5	95.0	95.5	96.7	98.2	20	100.5	010	104.9	106.3	40	11000		108.4	97.2	86.8	64.9	62.1
d3.2 88.5 88.5 88.9 98.5 98.3 39.8 101.6 103.6 104.6 102.1 90.8 d3.2 88.6 68.6 68.0 69.3 90.7 91.7 94.2 96.1 37.5 99.4 101.4 102.4 99.9 80.5 80.9 82.3 63.7 87.0 88.9 97.7 99.1 101.4 102.4 99.9 80.5 76.1 73.9 81.0 87.1 69.4 91.3 92.3 92.7 99.2 90.3 90.2 90.2 90.3 90.3 90.2 90.2 90.3 90.3 90.2 90.2 90.3 90.3 90.2 90.2 90.3	064	87.6	89.1	2.06	91.1	92.4	93.4	2	96.2	m	100.6	102.0				104.3	93.0	82.7	60.8	57.
80.5 84.6 db.2 86.6 b8.0 89.3 90.7 91.7 94.2 96.1 97.5 99.4 101.4 102.4 99.9 88.5 80.9 82.3 d3.9 84.2 65.7 87.0 88.4 91.9 93.7 95.2 97.1 99.1 100.1 97.6 86.2 80.9 82.3 d3.9 81.5 b1.8 83.4 84.6 b6.0 87.1 69.5 91.3 92.8 94.8 96.8 97.7 95.2 b3.7 76.1 77.4 79.1 79.4 80.9 82.1 d3.5 84.7 87.0 86.9 90.3 92.3 94.3 95.3 92.7 81.0 75.5 74.9 76.6 76.8 76.4 80.3 87.6 83.6 85.2 87.2 89.8 91.8 92.8 90.1 78.2 76.9 76.9 76.9 76.9 76.9 76.9 76.9 76.9	200	4000	86.9	88.5	84.9	99.5	91.6	0	0.46	10	98.3	99.8				102.1	90.8	90.0	58.6	55.
80.9 82.3 d3.9 84.2 85.7 87.0 88.4 89.4 91.9 93.7 95.2 97.1 99.1 100.1 97.6 86.2 78.6 73.9 81.5 61.8 83.4 84.6 66.0 87.1 69.5 91.3 92.8 94.8 96.8 97.7 95.2 83.7 76.1 77.4 79.1 79.4 81.9 82.1 63.5 84.7 87.0 88.9 90.3 92.3 94.3 95.3 92.7 81.0 75.5 74.9 76.5 76.8 76.4 81.9 82.2 84.4 86.3 87.6 89.8 91.8 92.8 90.1 78.2 70.9 72.2 74.0 74.1 75.9 76.9 76.9 76.9 76.9 82.2 84.4 86.3 87.1 84.3 75.3 64.0 69.3 72.2 74.0 74.1 75.9 76.9 76.9 76.9 82.2 84.4 86.3 87.1 84.3 71.7 64.9 64.1 67.8 04.0 1 79.2 73.0 74.0 72.2 72.2 77.6 79.1 81.2 83.8 80.1 87.4 86.3 61.4 62.5 64.2 64.4 66.4 67.2 68.0 73.2 72.2 74.0 75.6 77.7 79.5 80.0 76.9 63.6 61.4 62.5 64.2 64.4 66.4 67.2 68.0 73.2 72.2 74.0 75.6 79.1 87.7 79.5 80.0 76.9 63.6 61.4 62.5 64.2 64.4 66.4 67.2 68.0 73.2 72.2 74.0 75.6 77.7 79.5 80.0 76.9 63.6 61.4 62.5 64.2 64.4 65.4 65.4 65.2 64.2 64.2 67.2 67.8 64.7 75.7 79.5 80.0 76.9 63.6 61.4 62.5 64.2 64.4 65.4 67.2 68.0 73.2 72.2 74.0 75.6 73.7 75.4 75.9 72.6 59.1 61.4 62.5 64.2 64.4 65.4 67.2 68.0 73.2 72.2 74.0 73.7 75.4 75.9 72.6 59.1 61.4 62.5 64.2 64.4 65.4 65.8 60.2 63.2 70.0 71.6 73.7 75.4 75.9 72.6 59.1 61.4 62.5 64.2 64.4 65.4 65.8 60.2 63.2 70.0 71.6 73.7 75.4 75.9 72.6 59.1 61.4 62.5 64.2 64.4 65.4 65.8 60.2 63.2 70.0 71.6 73.7 75.4 75.9 72.6 59.1 61.4 62.5 64.2 64.4 65.4 65.8 70.8 70.2 63.8 61.2 65.1 67.2 67.8 64.7 75.1 67.8 64.7 75.1 75.8 75.4 75.5 75.4 75.8 75.5 75.4 75.5 75.4 75.5 75.4 75.5 75.4 75.4	630	93.2	84.6	90.5	96.6	0.80	89.3	1	91.7	~	96.1	97.5				6.66	88.5	18.4	26.4	53.
78.6 73.9 81.5 61.8 83.4 84.6 66.0 87.1 49.5 91.3 92.8 94.8 96.8 97.7 95.2 83.7 76.1 77.4 73.1 78.6 84.7 87.0 88.9 90.3 90.3 95.2 81.0 73.5 74.9 76.6 76.9<	9.10	80.9	82.3	63.9	84.2	85.7	87.0	t	4.68	9	93.7	95.2				97.6	86.2	76.1	54.1	51.
76.1 77.4 79.1 79.4 81.9 82.1 63.5 84.7 87.0 88.9 910.3 92.3 94.3 95.3 92.7 81.0 73.5 74.9 76.6 76.8 76.4 79.5 80.9 82.2 84.4 8b.3 87.6 89.8 91.8 92.6 910.1 78.2 76.5 76.9 76.1 77.1 75.9 76.9 78.6 81.8 83.6 85.2 84.4 8b.3 87.2 89.8 91.8 92.6 910.1 78.2 78.2 78.9 70.1 71.2 73.0 74.1 75.3 76.9 78.9 910.7 82.3 84.4 86.3 87.1 87.2 73.0 74.1 75.3 76.9 77.2 77.7 77.1 81.2 83.1 87.8 77.7 77.5 56.0 61.4 62.5 64.4 66.4 66.4 67.2 68.6 77.2 74.0 75.6 79.1 81.2 83.1 83.8 80.7 67.9 61.4 62.5 64.2 64.4 66.4 67.2 68.6 77.2 74.0 75.6 79.1 81.2 83.1 83.8 80.7 67.9 61.4 62.5 64.2 64.4 65.4 67.2 68.6 77.2 74.0 75.6 77.7 79.5 80.0 76.9 63.6 57.5 54.4 67.2 54.0 55.0 55.1 55.4 75.9 72.6 59.1 57.2 74.0 75.6 77.7 79.5 80.0 76.9 63.6 61.4 62.4 67.2 64.4 66.2 66.2 66.2 70.0 71.6 73.7 75.4 75.9 72.6 59.1 67.6 67.8 64.7 51.0 71.5 67.8 64.7 51.0 71.5 67.8 64.7 51.0 71.5 67.8 64.7 51.0 71.3 43.1 43.4 45.4 45.8 47.3 49.2 50.7 52.5 54.0 56.5 58.6 59.5 56.7 43.5 56.1 35.2 33.1 43.4 45.4 45.8 47.7 42.1 44.1 45.5 57.3 58.8 61.2 57.3 58.6 59.5 56.7 47.4 77.4 77.6 77.3 77.3 77.5 77.3 77.5 77.5 77.5 77.5	1030	78.6	6.62	81.5	61.8	83.4	84.6	0.99	87.1	89.5	91.3	95.8	8.46	96.8	7.76	95.2		73.7	51.8	49
73.5 74.9 76.6 76.8 78.4 79.5 80.9 82.2 84.4 80.3 87.6 89.8 91.8 92.8 90.1 78.2 70.9 72.2 74.0 74.1 75.9 76.9 76.9 76.9 78.2 83.6 85.2 87.2 89.3 90.1 87.4 75.3 66.6 80.6 83.6 85.2 87.2 89.3 90.1 87.4 75.3 66.6 66.0 70.1 72.2 73.8 73.8 73.6 77.1 81.2 83.1 81.8 83.1 87.8 71.7 75.3 64.2 64.2 64.4 66.4 67.2 68.6 77.2 72.2 74.0 75.6 79.1 81.2 83.1 83.8 80.7 76.6 77.2 77.7 79.5 80.0 76.9 67.9 61.4 62.5 64.2 64.4 66.4 67.2 68.6 77.2 72.2 74.0 75.6 79.1 81.2 83.1 80.0 76.9 63.6 57.5 54.4 65.4 65.4 67.2 68.6 77.2 70.0 71.6 77.7 79.5 80.0 76.9 63.6 57.5 54.4 65.4 65.0 58.1 58.8 61.2 67.3 69.4 71.0 71.5 68.2 54.4 49.3 50.1 51.9 52.2 54.2 54.2 54.3 55.4 57.3 69.4 77.0 77.5 67.8 64.7 51.0 77.5 54.0 57.2 67.8 64.7 51.0 77.5 79.5 80.0 76.9 72.6 59.1 45.6 45.3 41.3 43.1 43.4 45.8 47.3 49.2 50.7 52.5 54.0 56.5 58.6 59.5 56.7 43.5 56.1 35.2 33.1 43.4 45.4 45.8 47.3 49.2 50.7 52.5 54.0 56.5 58.6 59.5 56.7 43.5 59.1 35.2 36.1 36.3 340.3 36.4 33.8 41.6 57.3 48.7 51.3 53.6 54.7 52.3 39.4 52.1 54.6 56.5 56.6 52.8 56.6 52.8 56.6 52.8 56.6 52.8 56.1 35.2 56.6 59.4 42.3 44.1 42.1 30.9 52.3 39.4 42.3 44.1 42.1 30.9 30.1 32.1 33.5 35.2 36.6 39.4 42.3 44.1 42.1 30.9 30.1 32.1 33.5 35.2 36.6 39.4 42.3 44.1 42.1 30.9 30.1 32.1 33.5 35.2 36.6 39.4 42.3 44.1 42.1 30.9 30.1 32.1 33.5 35.2 36.6 39.4 42.3 44.1 42.1 30.9 30.1 32.1 33.5 35.2 36.6 39.4 42.3 44.1 42.1 30.9 30.1 32.1 33.5 35.2 36.6 39.4 42.3 44.1 42.1 30.9 30.1 32.1 33.5 35.2 36.6 39.4 42.3 44.1 42.1 30.9 30.1 32.1 33.5 35.5 36.4 50.0 39.4 42.1 42.1 30.9 30.1 32.1 33.5 35.5 36.6 39.4 42.3 44.1 42.1 30.9 30.1 32.1 33.5 35.5 34.1 34.1 42.1 30.9 30.1 32.1 33.5 35.5 36.6 39.4 42.3 44.1 42.1 30.9 30.1 32.1 33.5 35.5 34.1 34.1 42.1 30.9 30.1 32.1 33.5 35.5 34.1 34.1 42.1 30.9 30.1 32.1 33.5 34.1 34.1 42.1 30.9 30.1 32.1 33.5 34.1 34.1 42.1 30.9 30.1 32.1 33.5 34.1 34.1 42.1 30.9 30.1 32.1 32.1 32.1 32.1 32.1 32.1 32.1 32	1250	76.1	77.4	79.1	19.4	80.9	82.1	63.5	84.7	87.0	88.9	90.3	92.3	94.3	95.3	92.7		71.1	49.2	46
7u.9 72.2 7t.0 7t.1 75.9 76.9 78.3 79.6 81.8 83.6 85.2 87.2 89.3 90.1 87.4 75.3 64.6 85.2 87.2 87.2 87.1 87.4 75.3 64.6 85.3 71.0 71.2 73.0 7t.1 75.3 76.8 78.9 40.7 82.3 84.4 86.3 87.1 84.3 71.7 65.9 64.9 65.1 84.4 86.3 87.1 84.3 71.7 71.7 65.9 87.1 84.3 71.7 71.7 71.7 71.7 71.7 71.7 71.7 71	16.0	73.5	6.42	16.0	16.8	78.4	19.5	80.9	82.2	84.4	86.3	87.8	89.8	91.8	95.8	90.1	78.2	68.5	9.94	43.7
64.0 69.3 71.0 71.2 73.0 74.1 75.3 76.8 78.9 80.7 82.3 84.4 86.3 87.1 84.3 71.7 67.9 64.9 66.1 67.8 06.1 67.8 06.1 67.8 06.1 67.8 06.1 67.8 06.1 67.2 73.8 75.7 77.6 79.1 81.2 83.1 83.8 80.7 67.9 61.4 62.5 64.2 64.4 65.4 67.2 68.6 71.2 77.6 79.1 81.2 83.1 83.8 80.7 67.9 61.9 61.4 62.5 64.4 62.4 63.1 64.2 68.2 74.0 75.6 77.7 79.5 80.0 76.9 63.6 57.5 57.5 59.1 61.4 62.4 62.4 63.1 64.2 66.2 64.2 77.0 77.5 75.4 75.9 72.6 59.1 53.6 59.1 51.9 52.2 54.2 54.1 54.8 65.2 64.2 67.3 69.4 71.0 71.5 68.2 54.4 49.3 50.1 51.9 52.2 54.2 54.3 65.3 58.1 59.8 61.6 63.2 65.4 67.2 67.8 64.7 51.0 40.3 40.7 45.3 49.2 50.7 52.5 54.0 56.5 58.6 59.5 56.7 43.5 40.3 41.3 43.4 45.4 45.8 47.3 49.2 50.7 52.5 54.0 56.5 58.6 59.5 56.7 43.5 35.1 35.2 36.1 36.3 36.4 33.8 41.6 42.9 45.5 54.7 54.0 57.3 69.4 77.4 42.1 30.9 23.1 24.6 26.5 26.6 28.4 28.8 30.1 32.1 33.5 35.2 36.6 39.4 42.3 44.1 42.1 30.9 23.1 24.6 26.5 26.6 28.4 28.8 30.1 32.1 33.5 35.2 36.6 39.4 42.3 44.1 42.1 30.9 30.1 32.1 33.5 35.2 36.6 39.4 42.3 44.1 42.1 30.9	2000	4.0	75.2	74.0	74.1	15.9	76.9	78.3	9.62	8 . 18	83.6	85.2	87.2	89.3	90.1	87.4	75.3	65.7	43.8	41.
64.9 66.1 67.8 64.0 64.0 69.9 70.8 72.2 73.8 75.7 77.6 79.1 81.2 83.1 83.8 80.7 67.9 61.4 62.5 64.2 64.4 66.4 67.2 68.6 70.2 74.0 75.6 77.7 79.5 80.0 76.9 63.6 57.5 57.5 79.5 80.0 76.9 63.6 57.5 54.4 60.1 60.4 62.4 63.1 64.6 66.2 68.2 70.0 71.6 73.7 75.4 75.9 72.6 59.1 53.2 54.4 53.2 54.0 55.0 59.1 59.8 65.7 67.3 69.4 71.0 71.5 68.2 54.4 49.3 50.1 51.9 52.2 54.2 54.8 56.3 58.1 59.8 61.6 63.2 65.4 67.2 67.8 64.7 51.0 47.4 45.8 47.3 49.2 58.7 52.5 54.0 56.5 58.6 59.5 58.6 59.5 56.7 43.5 51.1 35.2 38.1 38.3 40.7 42.1 44.1 45.5 57.3 58.8 61.2 51.3 53.6 54.7 55.3 39.4 52.0 53.8 64.7 35.0 36.4 33.8 41.6 42.9 45.6 59.4 67.1 67.2 67.8 64.7 35.2 35.1 53.8 59.4 42.3 44.1 42.1 30.9 23.1 24.6 26.5 28.4 28.8 30.1 32.1 33.5 35.2 35.6 59.4 42.3 44.1 42.1 30.9	2500	60.0	69.3	71.0	71.2	73.0	74.3	75.3	76.8	78.9	40.7	82.3	84.4	86.3	87.1	84.3	711.7	62.3	40.6	37.
61.4 62.5 64.2 64.4 66.4 67.2 68.0 73.2 72.2 74.0 75.6 77.7 79.5 80.0 76.9 63.6 57.5 54.4 60.1 60.4 62.4 63.1 64.6 66.2 68.2 70.0 71.6 73.7 75.4 75.9 72.6 59.1 53.2 54.4 63.1 56.8 60.2 68.2 70.0 71.6 73.7 75.4 75.9 72.6 59.1 53.2 54.4 53.2 54.0 55.0 56.1 56.3 65.7 67.3 69.4 71.0 71.5 68.2 54.4 49.3 50.1 51.9 52.2 54.2 54.8 56.3 58.1 59.8 61.6 63.2 65.4 67.2 67.8 64.7 51.0 45.1 45.9 47.7 48.0 53.0 50.5 52.0 53.8 55.5 57.3 58.8 61.2 63.1 63.8 60.9 47.4 46.3 41.3 43.4 45.4 45.8 47.3 49.2 50.7 52.5 54.0 56.5 58.6 59.5 56.7 43.5 35.1 35.2 36.1 36.3 43.5 47.3 49.1 45.5 47.3 48.7 35.0 36.4 56.8 41.6 42.9 45.6 42.9 45.6 49.6 47.4 35.2 23.1 24.6 26.5 28.4 28.8 30.1 32.1 33.5 35.2 36.6 39.4 42.3 44.1 42.1 30.9 30.1 32.1 33.5 35.2 36.6 39.4 42.3 44.1 42.1 30.9	3150	6 * 4 9	66.1	67.8	69.0	6.69	70.8	72.2	73.8	15.7	77.6	79.1	81.2	83.1	83.8	80.7	6.79	58.5	36.9	34.
57.5 58.4 60.4 62.4 63.1 64.6 66.2 68.2 70.0 71.6 73.7 75.4 75.9 72.6 59.1 53.2 54.0 56.0 58.1 56.2 61.9 63.8 65.7 67.3 69.4 71.0 71.5 68.2 54.4 49.3 50.1 51.9 56.3 61.6 63.2 67.2 67.8 64.7 54.4 49.4 50.1 51.3 58.1 53.8 55.5 57.3 58.8 61.2 67.2 67.8 64.7 51.0 40.3 47.7 48.0 50.0 53.8 55.5 57.3 58.8 61.2 63.1 63.8 60.9 47.4 40.3 41.3 47.3 49.2 50.7 52.5 54.0 56.5 58.6 59.5 56.7 43.6 35.1 34.3 40.3 40.3 40.1 40.1 40.5 47.3 40.5 40.5	4030	61.4	65.50	2 * + 9	9.49	66.4	67.2	999	79.2	72.2	74.0	75.6	7.77	19.5	80.0	6.94	63.6	24.4	33.0	30.
b3.c 54.0 56.0 50.2 61.2 61.9 63.8 65.7 67.3 69.4 71.0 71.5 68.2 54.4 49.3 50.1 51.0 50.3 58.1 59.8 61.6 63.2 65.4 67.2 67.2 67.8 64.7 51.0 45.1 45.2 47.7 48.0 51.0 50.5 52.0 53.8 55.5 57.3 58.8 61.2 63.1 63.8 60.9 47.4 40.3 41.3 43.4 45.8 47.3 49.2 50.7 52.5 54.0 56.5 58.6 59.5 56.7 43.5 35.1 36.2 36.4 45.8 47.3 49.2 50.7 52.5 54.0 56.5 56.7 43.5 29.4 30.7 35.0 36.4 36.4 36.4 36.4 36.4 36.4 36.4 36.4 46.1 46.1 46.2 46.2 46.2 49.2 40.2	2000	51.5	29.4	60.1	60.4	65.4	63.1	9.49	66.2	68.2	76.0	71.6	73.7	15.4	15.9	72.6	59.1	6.64	28.6	25.
49.3 50.1 51.9 52.2 54.2 54.8 56.3 58.1 59.8 61.6 63.2 65.4 67.2 67.8 64.7 51.0 45.1 45.1 45.9 47.7 48.1 53.0 50.5 52.0 53.8 55.5 57.3 58.8 61.2 63.1 63.8 60.9 47.4 40.3 41.3 45.4 45.4 45.8 47.3 49.2 50.7 52.5 54.0 56.5 58.6 59.5 56.7 43.5 35.1 35.2 33.1 33.3 40.3 40.7 42.1 44.1 45.5 47.3 49.2 54.7 52.5 54.0 56.5 58.6 59.5 56.7 43.5 29.4 50.7 32.6 32.8 33.4 55.8 41.6 42.9 45.6 49.4 42.1 35.2 23.1 24.6 26.5 26.6 28.4 28.8 30.1 32.1 33.5 35.2 36.6 39.4 42.3 44.1 42.1 30.9	6300	53.6	54.0	55.0	56.0	58.1	58.8		61.9	63.8	65.7	67.3	4.69	71.0	71.5	68.2	24.4	45.2	24.1	21.
45.6 45.9 47.7 48.1 51.0 51.5 52.0 53.8 55.5 57.3 58.8 61.2 63.1 63.8 610.9 47.4 40.3 41.3 43.1 43.4 45.4 45.8 47.3 49.2 51.7 52.5 54.0 56.5 58.6 59.5 56.7 43.5 35.1 35.2 36.1 38.3 41.3 41.7 42.1 44.1 45.5 47.3 48.7 51.3 51.6 54.7 52.3 39.4 29.4 31.7 35.6 34.7 35.0 36.4 33.8 41.6 42.9 45.6 45.6 49.6 47.4 35.2 33.1 24.6 26.5 26.6 28.4 28.8 31.1 32.1 33.5 35.2 30.6 39.4 42.3 44.1 42.1 31.9	8000	*6.3	50.1	51.9	55.2	54.5	9.45		58.1	59.8	61.6	63.2	4 • 59	67.2	67.8	2.49	51.0	41.8	20.5	17.
46.3 41.3 43.1 43.4 45.4 45.8 47.3 49.2 50.7 52.5 54.0 56.5 58.6 59.5 56.7 43.5 35.1 35.2 38.1 38.3 40.3 40.7 42.1 44.1 45.5 47.3 48.7 51.3 53.6 54.7 52.3 39.4 29.4 30.7 32.6 32.6 52.8 34.7 35.0 36.4 38.4 38.4 42.9 42.9 45.6 48.2 49.6 47.4 35.2 32.3 33.5 35.2 38.6 59.6 47.4 35.2 38.5 59.4 33.5 55.2 38.6 59.4 42.3 44.1 42.1 30.9	10000	45.6	45.9	47.7	48.3	53.0	50.5	52.0	53.8	55.5	57.3	58.8	61.2	63.1	63.8	6.09	47.4	38.2	16.7	13.
35.1 35.2 38.1 38.3 40.3 40.7 42.1 44.1 45.5 47.3 48.7 51.3 53.6 54.7 52.3 39.4 29.4 30.7 32.6 32.8 34.7 35.0 36.4 38.4 38.8 41.6 42.9 45.6 48.2 49.6 47.4 35.2 23.1 24.6 26.5 26.6 28.4 28.8 30.1 32.1 33.5 35.2 36.6 39.4 42.3 44.1 42.1 30.9	12500	40.3	41.3	43.1	43.4	45.4	45.8	47.3	49.2	50.7	55.5	24.0	56.5	58.6	59.5	299	43.5	34.3	12.6	6
29.4 30.7 32.6 32.8 34.7 35.0 36.4 33.4 39.8 41.6 42.9 45.6 48.2 49.6 47.4 35.2 23.1 24.6 26.5 26.6 28.4 28.8 30.1 32.1 33.5 35.2 36.6 39.4 42.3 44.1 42.1 30.9	16000	35.1	35.2	38.1	38.3	40.3	40.7	42.1	44.1	45.5	47.3	48.7	51.3	53.6	24.7	52.3	39.4	30.1	8.2	5.4
23.1 24.6 26.5 26.6 28.4 28.8 30.1 32.1 33.5 35.2 36.6 39.4 42.3 44.1 42.1 30.9	20000	29.4	30.7	34.6	32.8	34.7	35.0	36.4	38.4	39.8	41.6	45.9	45.6	48.2	9.64	47.4	35.2	25.6	3.5	•
	25000	23.1	54.6	2002	26.6	28.4	28.8	30.1	32.1	33.5	35.2	30.6	39.4	42.3	44.1	42.1	30.9	21.0		

TERP 1	Table Tempone Tempon		AS A	FUNCTION	9	ANGLE A	AND DIS	DISTANCE	FROM S	SOURCE) OMEGA	3A 8.2 74-004-027	OMEGA 8.2 TEST 74-004-027	
3 10 20 30 40 50 60 70 60 ECREES) 3 40 296.9 99.2 98.6 98.8 100.3 101.6 102.6 105.4 110.3 112.1 113.0 110.4 97.2 93.3 94.8 96.9 96.7 96.7 96.7 99.2 100.3 101.0 110.9 100.4 97.2 93.3 94.8 96.9 96.7 96.7 96.7 99.2 100.3 101.0 110.9 100.4 97.2 93.3 94.8 96.9 96.7 96.7 96.7 96.7 100.8 101.4 110.3 112.1 113.0 110.4 97.2 93.3 94.8 95.6 96.7 96.7 96.8 100.6 102.0 107.9 106.3 106.3 95.1 94.8 95.6 96.9 96.7 96.7 96.8 10.0 10.0 10.0 110.9 106.4 97.2 94.8 96.9 96.7 96.7 96.7 96.7 96.7 96.7 96.7	STANCE	: 5	UACE/S J33-A NO RUN	AIRCRAF -35	_F		OPERA	i =	POWER				ETEORO TEM BAR REL ELTA N	PRESS HUNID	=29. 0 DB	L H X	13	PROFE	RUN 03 AIRCRAFT OPERATION OPERATION 19 JAN 76 PAGE 63	CODE	029 01031 A
95.4 96.9 98.2 98.6 98.8 100.3 101.8 102.6 105.4 107.1 108.4 110.3 112.1 113.0 110.4 97.2 92.6 93.8 94.3 94.2 96.7 96.2 100.2 100.5 103.2 104.9 106.3 108.1 110.0 110.9 108.4 97.2 92.6 93.8 94.3 94.3 94.3 94.3 94.3 94.3 94.3 94.3	95.4 96.9 98.2 98.6 98.8 100.3 101.8 102.6 105.4 107.1 108.4 110.3 112.9 93.3 94.8 96.0 96.5 96.7 98.2 99.0 100.5 103.2 104.9 106.3 108.1 110.9 91.2 92.6 93.9 94.3 94.3 94.3 94.8 96.0 96.5 98.3 101.0 102.8 104.9 106.3 103.8 110.9 91.2 92.6 93.9 94.3 94.3 94.2 99.0 101.5 103.2 104.9 106.3 103.8 105.8 91.2 91.3 91.6 93.0 94.6 95.3 96.2 98.3 101.0 102.8 104.1 105.0 107.8 94.5 93.9 90.2 94.6 95.3 96.2 94.8 95.3 103.8 105.0 103.8 105.0 103.8 105.0 103.8 105.0 94.5 95.2 97.1 99.0 95.4 95.0 95.2 97.1 99.0 95.4 95.0 95.2 97.1 99.0 95.4 95.0 95.4 95.2 97.1 99.0 95.4 95.0 95.4 95.2 97.1 99.0 95.2 97.1 99.0 95.2 97.1 99.0 95.2 97.1 95.2 97.1 95.2 97.1 99.0 95.2 97.1 95.2 97.1 95.2 97.1 95.2 97.1 95.2 97.1 95.2 97.1 95.2 97.1 95.2 97.1 95.2 97.1 95.2 97.1 95.2 97.1 95.2 97.1 97.2 97.2 97.2 97.2 97.2 97.2 97.2 97.2	DISTANCE (FEET)	3	10	20	30	0,	50	6.0	7.0	ANGL		REES)	110	120	130	140	150	160	17.0	180
93.3 94.8 96.0 96.5 96.7 96.2 99.0 100.5 103.2 106.3 106.1 110.0 110.9 100.4 97.2 91.2 92.6 93.9 94.3 94.3 94.5 96.0 97.5 98.3 101.0 102.6 106.3 106.1 106.0 107.9 106.3 95.1 91.2 92.6 93.9 94.3 94.3 94.5 96.1 97.5 98.3 101.0 102.6 107.9 106.3 95.1 96.9 104.6 107.9 106.9 106.3 95.1 96.2 91.3 92.6 94.2 106.1 107.9 106.3 95.1 96.2 94.2 94.2 94.2 107.6 107.9 106.3 95.1 96.2 94.2 94.2 96.2 107.6 107.9 106.3 95.1 96.2 94.2 94.2 97.1 97.5 106.3 95.1 90.8 92.7 95.2 97.1 97.5 97.1 97.6 96.2 97.1 97.5 97.1 97.5 97.7 95.2 97.1 97.5 97.1 97.5 97.7 95.2 97.1 97.5 97.7 95.2 97.7 95.2 97.1 97.5 97.7 95.2 97.7 95.2 97.1 97.5 97.7 95.2 97.7 97.5 97.8 97.7 97.8 97.8 97.7 97.8 97.8 97.8	93.3 94.8 96.0 96.5 96.7 98.2 99.0 100.5 103.2 104.9 106.3 100.1 110. 891.2 92.6 93.9 94.3 94.5 96.0 97.5 96.3 1012.0 102.6 110.1 103.8 110.0 893.1 94.2 93.9 94.3 94.3 94.2 96.1 97.5 96.2 101.0 102.6 110.0 103.8 110.0 86.9 86.2 89.5 89.6 91.6 93.0 94.0 96.2 98.3 101.6 110.0 103.8 110.0 86.9 85.9 87.3 87.6 88.0 99.2 97.1 99.0 96.2 95.1 97.5 99.4 101.0 103.8 110.0 85.9 87.2 97.1 99.0 82.4 85.0 85.0 85.0 87.2 97.1 99.0 95.7 95.2 97.1 99.0 82.4 85.0 85.0 87.2 97.1 99.0 92.1 97.5 99.4 101.0 87.5 97.6 97.6 97.2 97.2 97.2 97.2 97.2 97.2 97.2 97.2	200	95.4		98.2		98.8	100.3					4	110.3	_		110.4	99.2	88.9	67.0	64.
91.2 92.6 93.9 94.3 94.5 96.1 97.5 98.3 101.0 102.8 104.1 106.0 107.9 108.9 106.3 95.1 89.1 90.4 91.7 92.4 93.8 95.3 101.0 102.8 104.6 102.0 107.9 108.9 106.3 106.1 92.4 93.8 95.3 196.2 94.8 100.6 102.0 103.8 105.8 106.7 104.3 93.0 84.6 96.9 87.6 90.8 90.2 91.6 91.7 94.2 94.8 101.6 103.6 104.6 102.1 90.8 84.6 85.9 87.3 87.0 90.7 91.7 95.2 97.1 97.1 97.1 106.1 97.6 86.2 82.4 83.6 85.9 82.4 84.6 86.0 82.7 87.7 95.2 97.1 99.3 97.8 101.6 102.1 97.6 86.2 82.4 83.6 82.2 87.2 97.3 92.8 94.8 96.8 97.7 95.2 83.7 77.5 77.5 77.6 77.6 77.6 77.8 78.4 78.3 76.6 81.8 83.6 85.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87	91.2 92.6 93.9 94.3 94.5 96.0 97.5 98.3 101.0 102.8 104.1 106.0 107. 89.1 90.4 91.7 92.1 92.4 93.8 95.3 96.2 98.8 100.6 102.0 103.8 105. 86.9 98.1 94.0 96.5 98.8 100.6 102.0 103.8 105. 86.9 98.2 98.2 97.2 97.2 97.2 97.2 97.2 97.2 97.2 97	250	93.3			96	1.96	98.2			~			108.1			108.4	97.2	86.8	6.49	62.1
89.1 90.4 91.7 92.1 92.4 93.8 95.3 96.2 90.8 100.6 102.0 103.8 105.8 106.7 104.3 93.0 86.9 86.9 86.9 86.2 89.5 89.9 90.2 91.6 93.0 94.0 94.0 96.8 101.6 103.6 104.6 102.4 90.8 86.9 87.3 87.6 80.0 87.3 87.6 87.0 87.0 89.4 101.4 101.4 101.4 97.6 86.2 82.4 85.8 85.7 87.0 87.1 93.1 101.4 101.4 97.6 86.2 82.4 85.8 85.8 85.8 85.8 85.8 85.8 85.8 85	89.1 99.4 91.7 92.1 92.4 93.8 95.3 96.2 98.8 100.6 102.0 103.8 105.8 86.9 88.2 89.5 89.9 90.2 91.6 93.0 94.0 96.5 98.3 99.8 101.6 103.8 105.8 86.9 88.2 89.5 89.9 90.2 91.6 93.0 94.0 96.5 98.3 99.8 101.6 103.8 101.8 82.4 83.5 85.6 85.0 85.7 85.7 95.2 97.1 99.8 82.4 83.6 85.0 85.7 95.2 97.1 99.8 82.4 83.8 85.7 80.2 82.8 94.8 95.3 94.7 95.2 97.1 99.8 80.6 80.6 80.6 80.6 80.8 82.8 94.8 95.3 94.8 95.3 94.8 95.4 75.6 77.8 77.8 77.8 77.8 77.8 77.8 77.8 77	315	91.2			9.	94.5	96.0			0			106.0	•		106.3	95.1	84.8	65.9	60
86.9 88.2 89.5 89.9 90.2 91.6 93.0 94.0 96.5 98.3 99.8 101.6 103.6 104.6 102.1 90.8 84.6 85.9 87.5 87.6 84.0 89.5 90.7 91.7 94.2 96.1 97.5 99.4 101.4 102.4 99.9 88.5 82.4 63.7 87.3 87.6 84.0 89.4 99.7 99.7 95.2 97.1 99.1 100.1 97.6 86.2 82.4 63.7 87.3 87.4 89.4 99.7 93.7 95.2 97.1 99.1 100.1 97.6 86.2 82.4 63.7 77.5 78.7 78.7 80.2 80.4 80.9 83.4 77.5 78.7 80.2 80.4 80.9 82.8 94.8 96.8 97.7 95.2 83.7 77.5 78.7 78.0 78.9 78.3 79.6 81.4 86.3 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87.2	86.9 88.2 89.5 84.9 90.2 91.6 93.0 94.0 96.5 98.3 99.8 101.6 103.8 84.6 85.9 87.3 87.6 84.0 99.7 91.7 94.2 96.1 97.5 99.4 101.8 82.4 43.6 85.0 85.2 87.1 80.2 87.3 87.6 84.0 86.0 87.1 94.9 93.7 95.2 97.1 99.8 82.4 43.6 85.0 85.0 85.7 87.2 87.1 99.9 93.7 95.2 97.1 99.8 80.6 85.0 85.0 85.0 85.0 85.0 85.0 85.0 85.0	004	89.1		91.7	95.	95.4	93.8		٠.	0			103.8	•		104.3	93.0	82.7	60.8	57.
84.6 85.9 47.3 87.6 88.0 89.3 90.7 91.7 94.2 96.1 97.5 99.4 101.4 102.4 99.9 88.5 82.4 d3.6 85.0 85.7 87.3 87.6 88.0 93.7 95.2 97.1 99.1 106.1 97.6 86.2 80.4 d3.6 85.0 82.0 83.7 95.2 97.1 99.1 106.1 97.6 86.2 80.6 d3.6 85.2 80.2 80.4 80.9 82.1 83.5 84.7 47.5 78.8 99.8 91.8 97.8 95.3 94.3 95.3 97.7 95.2 83.7 77.5 78.7 75.6 77.8 78.4 79.5 80.9 82.2 44.4 85.3 87.8 89.8 91.8 92.8 90.1 78.2 75.0 76.8 77.6 77.8 78.4 79.5 80.9 82.2 44.4 85.3 87.8 89.8 91.8 92.8 90.1 78.2 75.0 76.9 76.9 76.9 76.9 80.7 82.3 84.4 85.3 87.1 87.4 75.3 65.4 75.3 75.6 77.6 77.8 75.9 76.9 76.9 76.9 80.7 77.6 77.7 77.7 79.5 80.1 87.4 75.3 65.0 65.2 66.4 67.2 68.0 77.2 77.6 77.7 79.5 80.0 76.9 63.6 58.3 59.2 60.8 61.0 65.2 66.4 67.2 77.7 77.6 77.7 79.5 80.0 76.9 63.6 58.3 59.2 60.8 61.0 62.4 63.1 64.6 66.2 68.2 77.0 77.6 77.7 79.5 80.0 77.5 67.9 64.0 65.2 66.4 67.2 68.0 70.0 71.6 73.7 75.4 75.9 72.6 59.1 64.6 65.2 68.2 70.0 71.6 73.7 75.4 75.9 72.6 59.1 64.6 65.2 68.2 70.0 71.6 73.7 75.4 75.9 72.6 59.1 64.6 65.2 68.2 70.0 71.6 67.3 69.4 77.7 79.5 80.0 72.5 54.4 67.2 67.8 64.7 51.0 71.5 68.2 54.4 55.1 52.4 54.2 54.2 54.8 56.2 56.4 67.2 67.8 64.7 51.0 71.6 53.2 65.4 67.2 67.8 64.7 51.0 71.5 68.2 54.4 67.2 67.8 64.7 51.0 71.5 68.2 54.0 56.5 58.6 59.5 56.7 43.5 57.1 36.2 38.1 38.3 40.3 40.7 45.8 47.3 49.2 50.7 52.5 54.0 56.5 58.6 59.5 56.7 43.5 57.0 57.5 57.5 57.5 57.5 57.5 57.5 57	84.6 b5.9 d7.3 b7.6 b8.0 d9.3 g9.7 g1.7 g4.2 g6.1 g7.5 g9.4 101. 82.4 d3.6 b5.0 b5.3 b7.6 b8.0 d7.1 b9.4 g1.9 g3.7 g5.2 g7.1 g9. 80.6 b1.2 b2.0 b2.0 b3.4 b4.6 b6.1 b7.1 b9.5 g1.3 g2.8 g4.8 g6. 77.5 78.7 b3.2 b3.4 b3.9 b2.1 b3.5 b4.7 d7.0 bb.9 g1.3 g2.8 g4.8 g6. 77.5 78.7 75.6 77.8 78.4 79.5 b6.9 b2.2 d4.4 bb.3 d7.8 b9.3 g2.3 g4.8 g6.0 f2.1 f2.3 73.6 f2.1 f2.2 f3.0 f4.0 f2.2 f3.0 f2.2 f3.0 f4.0 f2.2 f3.0 f2.2 f3.0 f2.2 f3.0 f3.2 f3.0 f3.2 f3.0 f3.0 f3.0 f3.0 f3.0 f3.0 f3.0 f3.0	200	86.9		89.5	.68	90.5	91.6		_	2			101.6	.0		105.1	90.8	80.6	58.6	55.
80.6 61.2 82.6 82.9 83.4 84.6 86.0 87.1 43.9 93.7 93.2 97.1 99.1 100.1 97.6 86.2 77.5 78.7 80.2 80.4 80.9 82.1 83.5 64.7 87.0 88.9 90.3 92.3 94.8 96.8 97.7 95.2 83.7 77.5 78.7 78.7 77.6 77.8 78.4 79.5 80.9 82.1 83.5 64.7 87.0 88.9 90.3 92.3 94.8 95.3 92.7 81.0 75.0 76.2 77.6 77.8 78.4 79.5 80.9 82.2 84.4 86.3 87.8 89.8 91.8 92.8 90.1 78.2 75.3 73.5 75.0 76.9 76.3 76.6 81.8 83.6 85.2 87.2 89.3 90.1 87.4 75.3 69.4 70.6 72.1 72.2 73.0 74.0 75.6 81.8 83.6 85.2 87.2 89.3 90.1 87.4 75.3 69.4 70.6 72.1 72.2 73.0 74.0 75.6 77.7 77.6 79.1 81.2 83.1 87.8 87.1 87.1 77.7 79.5 80.0 76.9 67.9 65.9 65.0 65.2 66.4 67.2 77.2 77.6 77.1 77.7 79.5 80.0 76.9 63.6 58.3 89.8 50.2 56.4 67.2 66.2 68.2 70.0 71.6 73.7 75.4 75.9 72.6 59.1 52.4 63.6 65.2 66.4 67.2 68.0 70.2 72.7 70.0 71.6 73.7 75.4 75.9 72.6 59.1 64.6 66.2 68.2 70.0 71.6 73.7 75.4 75.9 72.6 59.1 64.0 66.2 68.2 70.0 71.6 73.7 75.4 75.9 72.6 59.1 64.6 66.2 68.2 70.0 71.6 73.7 75.4 75.9 72.6 59.1 64.0 66.2 68.2 70.0 71.6 67.3 69.4 77.7 79.5 80.0 71.5 68.2 54.4 67.2 67.8 64.7 51.0 71.5 68.2 54.4 67.2 67.8 64.7 51.0 71.6 73.7 75.4 75.9 72.6 59.1 64.0 65.2 67.8 67.2 67.8 64.7 51.0 71.5 68.2 54.4 67.2 67.8 64.7 51.0 71.6 73.7 75.4 75.9 72.6 73.0 72.6 73.7 75.4 75.9 72.6 73.0 72.6 73.8 73.7 72.8 73.7 72.8 73.7 72.8 73.7 72.8 73.7 72.8 73.7 72.8 73.7 72.8 73.7 72.8 73.8 73.8 73.8 73.8 73.8 73.8 73.8 73	80.6 63.6 65.0 65.7 86.7 86.9 66.0 67.1 69.5 93.7 95.2 97.1 99. 80.6 63.2 82.6 82.9 83.4 64.6 86.0 67.1 69.5 91.3 92.8 94.8 96. 77.5 78.7 80.2 80.4 80.9 82.1 83.5 64.7 87.0 88.9 90.3 92.3 94.8 72.3 73.6 77.6 77.8 78.4 79.5 80.9 82.2 64.4 86.3 87.8 89.3 97.8 99.8 72.3 73.6 72.3 73.6 72.3 73.8 75.3 73.6 85.2 87.2 89.8 62.6 63.5 65.0 65.2 75.9 76.9 76.9 76.3 73.8 75.7 77.6 79.1 81.2 83.6 65.4 67.4 66.8 69.0 69.9 76.8 77.2 73.8 75.7 77.6 79.1 81.2 83.6 65.6 63.5 65.0 65.2 66.4 67.2 68.0 70.2 72.2 74.0 75.6 77.7 79.5 88.3 54.4 52.1 52.4 54.2 54.8 56.3 56.1 65.2 65.4 57.7 75.4 66.8 69.0 70.8 70.0 71.6 73.7 75.4 65.0 65.2 66.4 58.1 64.6 66.2 68.2 70.0 71.6 73.7 75.4 65.0 65.2 66.4 58.1 64.6 66.2 68.2 70.0 71.6 73.7 75.4 65.0 65.2 56.4 58.1 56.4 56.3 56.3 56.1 57.8 73.7 75.8 75.1 75.1 75.1 75.1 75.1 75.1 75.1 75.1	636	34.6		87.3	87.	84.0	89.3		91.7	2			* * 66			6.66	88.5	78.4	56.4	53.
80.6 61.2 82.6 82.9 83.4 64.6 86.0 67.1 69.5 91.3 92.8 94.6 96.8 97.7 95.2 83.7 77.5 78.7 80.2 80.4 80.9 82.1 83.5 64.7 87.0 88.9 90.3 92.3 94.3 95.3 95.3 92.7 81.0 75.0 76.2 77.6 77.8 78.4 79.5 80.9 82.2 84.4 86.3 87.8 89.8 91.8 92.8 90.1 78.2 72.3 73.5 75.0 76.9 76.9 76.9 76.9 76.9 76.9 76.9 76.9	80.6 61.2 82.6 82.9 83.4 64.6 86.1 67.1 69.5 91.3 92.8 94.8 96.3 77.5 77.5 77.8 77.8 81.9 82.1 83.5 64.7 87.0 88.9 91.3 92.8 94.8 94.8 77.5 77.6 77.8 78.4 79.5 80.9 82.2 44.4 86.3 87.8 87.2 89.8 91.7 72.3 73.5 77.6 77.8 78.4 79.5 80.9 82.2 44.4 86.3 87.6 85.2 87.2 89.8 91.8 72.3 73.6 77.6 77.1 72.2 75.9 76.9 76.3 77.8 78.7 77.6 87.2 87.8 87.2 87.8 87.2 87.2 89.8 91.8 87.6 87.2 87.2 87.2 89.8 87.2 87.2 87.2 87.2 87.3 87.4 87.4 87.4 87.8 77.7 77.8 77.7 77.8 77.8	800	82.4	83	85.0	85.	85.7	87.0		4.68	6			97.1	_		91.6	86.2	76.1	54.1	51.
77.5 78.7 80.2 80.4 80.9 82.1 83.5 84.7 87.0 88.9 90.3 92.3 94.3 95.3 97.0 81.0 72.3 73.5 77.5 77.6 77.8 78.4 79.5 80.9 82.2 84.4 86.3 87.8 89.8 91.8 92.8 90.1 78.2 72.3 73.5 75.0 76.9 76.9 76.9 76.9 76.9 76.9 76.9 76.9	77.5 78.7 80.2 80.4 80.9 82.1 83.5 84.7 87.0 88.9 90.3 92.3 94. 72.3 73.6 77.6 77.8 78.4 79.5 80.9 82.2 44.4 86.3 87.6 89.8 91. 72.3 73.5 77.6 77.8 78.4 79.5 80.9 82.2 44.4 86.3 87.6 89.8 91. 89.8 91. 89.8 72.3 73.6 77.0 77.9 78.3 79.6 81.8 83.6 85.2 87.2 89.8 91.6 69.4 67.4 66.8 69.0 69.9 70.8 72.2 73.8 77.7 77.6 79.1 81.2 83.6 62.6 63.5 65.0 65.2 66.4 67.2 68.0 70.2 72.2 74.0 75.6 77.7 79.8 83.3 59.2 50.8 61.0 62.4 67.2 68.0 70.2 72.2 74.0 75.6 77.7 79.8 83.3 59.4 52.1 52.4 54.2 54.8 50.3 60.3 60.3 60.2 68.2 70.0 71.6 73.7 75.4 69.6 50.4 57.1 50.8 50.3 60.3 50.4 57.1 57.7 79.8 62.6 63.5 56.4 57.2 54.8 56.3 59.8 61.5 63.2 65.4 67.2 69.0 60.3 60.3 60.3 60.3 60.3 60.3 60.3 60	1000	3.08		82.0	82.	83.4	94.6	86.3	87.1	89.5	91.3	92.8	94.4	96.8	97.7	95.2	83.7	73.7	51.8	64
75.0 76.2 77.6 77.8 78.4 79.5 80.9 82.2 84.4 86.3 87.8 89.8 91.8 92.8 90.1 78.2 72.3 73.5 75.0 75.2 75.9 76.9 78.3 79.6 81.8 83.6 85.2 87.2 89.3 90.1 87.4 75.3 69.4 75.3 75.6 72.1 72.2 73.0 74.0 75.3 76.8 78.9 80.7 82.3 84.4 86.3 87.1 84.3 71.7 60.4 67.4 65.8 65.2 77.8 77.6 79.1 81.2 83.1 83.8 80.7 67.9 60.4 67.4 65.2 73.0 77.6 77.6 79.1 81.2 83.1 83.8 80.7 67.9 67.9 66.2 68.2 70.0 71.6 73.7 75.4 75.9 72.6 59.1 67.9 68.0 70.2 72.2 74.0 71.6 73.7 75.4 75.9 72.6 59.1 53.8 54.5 56.2 56.4 67.2 66.2 68.2 70.0 71.6 73.7 75.4 75.9 72.6 59.1 64.6 66.2 68.2 70.0 71.6 73.7 75.4 75.9 72.6 59.1 64.6 66.2 68.2 70.0 71.6 73.7 75.4 75.9 72.6 59.1 64.6 65.2 68.2 70.0 71.6 73.7 75.4 75.9 72.6 59.1 64.6 66.2 68.2 70.0 71.6 73.7 75.4 75.9 72.6 59.1 64.6 66.2 68.2 70.0 71.6 73.7 75.4 75.9 72.6 59.1 64.6 65.2 68.2 70.0 71.6 73.7 75.4 75.9 72.6 59.1 64.6 65.2 66.2 68.2 70.0 71.6 73.7 75.4 75.9 72.6 59.1 64.6 65.2 68.2 70.0 71.6 73.7 75.4 75.9 72.6 59.1 72.6 72.0 72.6 72.8 72.6 72.0 72.6 72.8 61.2 62.1 72.0 72.6 72.8 64.7 72.0 72.6 72.8 64.7 72.0 72.6 72.8 72.8 72.8 72.8 72.8 72.8 72.8 72.8	75.0 76.2 77.6 77.8 78.4 79.5 80.9 82.2 84.4 86.3 87.8 89.8 91. 72.3 73.5 75.0 75.2 75.9 76.9 78.3 79.6 81.0 83.6 85.2 87.2 89.8 91.8 69.4 70.6 72.1 72.2 73.0 74.0 75.3 70.6 81.0 83.6 85.2 87.2 89.8 60.4 67.4 68.8 69.0 77.6 79.1 81.2 83.8 60.4 67.4 68.8 61.0 65.2 66.4 67.2 73.8 75.7 77.6 79.1 81.2 83.8 60.4 67.4 67.4 67.8 65.2 66.4 67.2 70.8 77.6 79.1 81.2 83.8 63.3 59.2 60.8 61.0 62.4 63.1 64.6 66.2 68.2 70.0 71.6 73.7 75.8 63.8 54.5 56.2 56.4 58.1 58.8 60.2 61.9 63.8 65.7 67.3 69.4 71.4 49.6 51.4 52.1 52.4 54.2 54.8 56.3 58.1 59.8 61.6 53.2 65.4 67.3 49.4 45.8 47.3 49.2 50.7 52.5 54.0 56.5 58.4 67.3 49.7 73.1 38.2 38.1 38.3 40.3 40.7 42.1 44.1 45.5 47.3 48.7 51.3 53.8 29.4 30.7 32.6 32.8 34.7 35.0 36.4 23.1 33.5 35.2 26.6 28.4 28.8 30.1 32.1 33.5 35.2 26.6 28.4 28.8 30.1 32.1 33.5 35.2 35.6 39.4 42.8	1250	77.5		80.5	80.	80.9	82.1	83.5	84.7	87.0	88.9	90.3	92.3	94.3	95.3	92.7	81.0	71.1	49.2	46.4
72.3 73.5 75.0 75.2 75.9 76.9 76.3 79.6 61.8 63.6 65.2 87.2 69.3 90.1 87.4 75.3 69.4 70.6 72.1 72.5 73.0 77.6 77.6 79.1 81.2 87.1 84.3 71.7 65.9 65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0	72.3 73.5 75.0 75.2 75.9 76.9 78.3 79.6 81.8 83.6 85.2 87.2 89. 89. 89.4 70.6 72.1 72.2 73.0 74.9 75.3 76.8 78.9 80.7 82.3 84.4 86. 85.4 70.6 72.1 72.2 73.0 75.3 76.8 78.9 80.7 82.3 84.4 86. 85.4 67.4 66.8 69.0 69.9 76.8 72.2 73.8 75.7 77.6 79.1 81.2 83. 62.4 65.8 65.4 65.4 65.4 66.4 66.2 72.2 74.0 75.6 77.7 79. 83. 62.3 56.2 56.4 58.1 58.8 60.2 61.9 63.8 65.7 67.3 69.4 71. 75. 63.8 54.5 56.2 56.4 58.1 58.8 60.2 61.9 63.8 65.7 67.3 69.4 71. 49.6 50.4 52.1 52.4 54.2 54.8 56.3 58.1 59.8 61.5 53.2 65.4 67. 49.6 50.4 57.7 48.0 50.0 50.8 65.7 57.3 58.8 61.2 65.4 67. 49.6 50.4 57.7 48.0 50.0 50.0 50.3 59.1 44.1 45.5 47.3 48.7 51.3 53.2 59.8 41.6 42.9 45.6 48.2 29.4 30.7 32.6 32.8 34.7 35.0 36.4 38.4 39.8 41.6 42.9 45.6 48.2 23.1 24.6 26.5 26.6 28.4 28.8 30.1 32.1 33.5 35.2 36.6 39.4 42.	1600	75.0		77.6	77.	78.4	79.5	80.9	82.2	4.40	86.3	87.8	89.8	91.8	95.8	90.1	78.2	68.5	46.6	43.
69.4 73.6 72.1 72.2 73.0 74.0 75.3 76.8 78.9 80.7 82.3 84.4 86.3 87.1 84.3 71.7 65.9 60.4 67.4 68.8 69.0 69.9 71.8 72.2 73.8 75.7 77.6 79.1 81.2 83.1 83.8 80.7 67.9 62.6 62.5 65.4 67.2 68.4 67.2 68.5 77.6 79.1 81.2 83.1 83.8 80.7 67.9 62.6 62.6 65.4 67.2 68.4 67.2 67.0 77.6 79.1 79.5 79.1 81.2 83.1 83.8 80.7 67.9 57.9 58.5 59.1 53.8 54.5 56.2 56.4 67.2 64.6 66.2 68.2 74.0 71.6 73.7 75.4 75.9 72.6 59.1 63.6 53.6 54.4 52.1 52.4 54.2 54.8 56.2 61.9 63.8 65.7 67.3 69.4 71.0 71.5 68.2 54.4 49.6 53.4 52.1 52.4 54.2 54.8 56.3 58.1 59.8 61.2 63.1 63.8 61.9 47.4 49.3 41.3 43.1 43.4 45.4 45.8 47.3 49.2 50.7 52.5 54.0 56.5 58.6 59.5 56.7 43.5 35.1 36.2 38.1 38.3 40.7 42.1 44.1 45.5 47.3 49.2 54.3 54.3 53.6 54.7 52.3 59.4 52.4 52.8 54.7 53.0 54.7 55.1 52.4 57.4 55.5 54.0 56.5 58.6 59.5 56.7 43.5 59.4 50.7 52.8 54.7 52.1 52.4 52.1 52.8 54.7 52.1 52.4 52.1 52.8 54.7 52.1 52.4 52.1 52.8 54.7 52.1 52.4 52.1 52.8 54.7 52.1 52.4 52.1 52.8 54.7 52.1 52.4 52.1 52.8 54.7 52.1 52.4 52.1 52.8 54.7 52.1 52.4 52.1 52.8 54.1 52.8 54.7 52.1 52.4 52.1 52.8 54.1 52.8 54.7 52.1 52.4 52.1 52.8 54.1 52.8 54.1 52.1 52.4 52.1 52.8 54.1 52.1 52.1 52.1 52.1 52.1 52.1 52.1 52	69.4 73.6 72.1 72.2 73.0 74.0 75.3 76.8 78.9 80.7 82.3 84.4 86. 65.4 67.4 68.8 63.0 69.9 70.8 72.2 73.8 75.7 77.6 79.1 81.2 83. 62.6 63.5 65.0 65.2 66.4 67.2 68.0 70.2 72.2 74.0 75.6 77.1 77.7 77.7 77.7 77.7 77.7 77.7 77	2000	72.3		75.0	75.	75.9	6.97	78.3	9.62	81.8	83.6	85.2	87.2	89.3	90.1	87.4	75.3	65.7	43.8	41.
62.6 63.4 63.8 63.0 69.9 76.8 72.2 73.8 75.7 77.6 79.1 81.2 83.1 83.8 80.7 67.9 62.6 63.5 65.0 65.2 66.4 67.2 68.0 70.2 72.2 74.0 75.6 77.7 79.5 80.0 72.6 63.6 58.3 59.3 59.4 55.0 65.4 65.2 66.4 67.2 68.2 71.0 75.6 77.7 75.4 75.9 72.6 63.6 53.6 53.6 53.4 55.1 52.4 56.2 56.4 61.9 63.8 65.5 63.6 63.2 71.0 71.5 68.2 54.4 49.6 51.4 52.1 52.4 54.2 54.8 56.3 58.1 59.8 61.2 63.4 67.2 67.8 64.7 51.0 45.9 47.7 48.0 51.0 51.0 51.0 51.0 51.0 51.0 51.0 51	60.4 67.4 68.8 69.0 69.9 76.8 72.2 73.8 75.7 77.6 79.1 81.2 83. 62.6 63.5 65.0 65.2 66.4 67.2 68.0 70.2 72.2 74.0 75.6 77.7 79. 58.3 59.3 59.2 60.4 67.2 68.0 70.2 72.2 74.0 75.6 77.7 79. 58.8 54.5 56.2 56.4 58.1 58.8 60.2 60.9 63.8 65.7 67.3 69.4 71.6 49.6 50.4 52.1 52.4 54.8 56.3 58.1 59.8 61.6 63.2 65.4 67. 45.0 45.9 47.7 48.0 50.8 57.8 55.8 55.5 57.3 58.8 61.2 63.4 67. 45.0 45.9 47.3 43.1 43.4 45.4 45.8 47.3 49.1 56.8 57.8 58.8 61.2 63.8 61.2 63.2 65.4 57. 57.3 80.1 38.3 40.3 40.7 42.1 44.1 45.5 47.3 48.7 51.3 53.2 29.4 30.7 32.6 32.8 34.7 35.0 36.4 38.4 39.8 41.6 42.9 45.6 48.2 23.1 24.6 26.5 26.6 28.4 28.8 30.1 32.1 33.5 35.2 36.6 39.4 42.	2530	69.4			72.	73.0	74.0	75.3	16.8	6.87	80.7	82.3	84.4	86.3	87.1	84.3	71.7	62.3	40.6	37.
62.6 63.5 65.0 65.2 66.4 67.2 68.0 70.2 72.2 74.0 75.6 77.7 79.5 80.0 76.9 63.6 58.3 59.2 00.8 61.0 62.4 63.1 64.6 66.2 68.2 70.0 71.6 73.7 75.4 75.9 72.6 59.1 53.8 54.5 56.2 56.4 58.1 58.8 60.2 61.9 63.8 65.7 67.3 69.4 71.0 71.5 68.2 54.4 49.6 50.4 52.4 52.4 54.2 54.8 56.3 58.1 59.8 61.5 63.2 65.4 67.2 67.8 64.7 51.0 45.0 45.9 47.7 48.0 50.0 50.0 50.0 53.8 55.5 57.3 58.8 61.2 63.1 63.8 60.9 47.4 40.3 41.3 43.1 43.4 45.8 47.3 49.2 50.7 52.5 54.0 56.5 58.6 59.5 56.7 43.5 35.1 36.2 38.1 38.3 40.3 40.7 35.0 36.4 39.8 41.6 42.9 42.9 56.7 52.3 39.4 29.4 30.7 32.6 32.8 34.7 35.0 36.4 38.4 39.8 41.6 42.9 42.9 42.9 42.4 43.6 43.6 59.5 56.7 43.5 59.4 50.7 52.8 34.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50	62.6 63.5 65.0 65.2 66.4 67.2 68.0 70.2 72.2 74.0 75.6 77.7 79. 58.3 59.2 00.8 61.0 62.4 63.1 64.6 66.2 68.2 70.0 71.6 73.7 75. 58.3 59.2 00.8 61.0 62.4 63.1 64.6 66.2 68.2 70.0 71.6 73.7 75. 93.6 50.4 56.2 56.4 54.2 54.8 56.3 58.1 59.8 61.6 63.2 65.4 67. 45.0 45.9 47.7 48.0 50.0 54.8 56.3 58.1 59.8 61.6 63.2 65.4 67. 45.0 45.9 47.7 48.0 50.0 50.0 53.8 55.5 57.3 58.8 61.2 63. 45.1 36.2 38.1 38.3 40.3 40.7 42.1 44.1 45.5 47.3 48.7 51.3 53.2 29.4 30.7 32.6 32.8 34.7 35.0 36.4 38.4 39.8 41.6 42.9 45.6 48.23.1 24.6 26.5 26.6 28.4 28.8 30.1 32.1 33.5 35.2 35.6 39.4 42.	3150	4.09			69	6.69	16.8	72.2	73.8	15.7	77.6	79.1	81.2	83.1	83.8	80.7	64.9	58.5	36.9	34.
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49.6 50.4 52.1 52.4 54.2 54.8 56.3 58.1 59.8 61.6 63.2 65.4 67.2 67.8 64.7 51.0 45.0 45.0 47.7 48.0 50.0 50.0 50.0 53.8 55.5 57.3 58.8 61.2 63.1 63.8 60.9 47.4 40.3 41.3 43.1 43.4 45.4 45.8 47.3 49.2 50.7 52.5 54.0 56.5 58.6 59.5 56.7 43.5 35.1 36.2 38.1 38.3 40.7 42.1 44.1 45.5 47.3 48.7 51.3 53.6 54.7 52.3 39.4 29.4 39.8 41.6 42.9 42.6 48.2 49.6 47.4 35.2 59.4 30.7 32.6 32.8 34.7 35.0 36.4 38.4 39.8 41.6 42.9 42.9 48.2 49.6 47.4 35.2 59.4 30.7 52.3 50.4 30.8 50.7 50.7 50.7 50.7 50.7 50.7 50.7 50.7	49.6 50.4 52.1 52.4 54.2 54.8 56.3 58.1 59.8 61.6 63.2 65.4 67. 45.0 45.9 47.7 48.0 50.0 50.6 52.0 53.8 55.5 57.3 58.8 61.2 63.4 67.9 47.7 48.0 50.0 50.6 52.0 53.8 55.5 57.3 58.8 61.2 63.8 40.3 41.3 43.4 43.4 45.4 45.8 47.3 49.2 50.7 52.5 54.0 56.5 58.35.1 36.2 38.1 38.3 40.3 40.7 42.1 44.1 45.5 47.3 48.7 51.3 53.2 29.4 30.7 32.6 32.8 34.7 35.0 36.4 38.4 39.8 41.6 42.9 45.6 48.2 23.1 24.6 26.5 26.6 28.4 28.8 30.1 32.1 33.5 35.2 36.6 39.4 42.	6336	53.8	54.	56.2	56.	58.1	58.8	60.2	6119	63.8	65.7	67.3	4.69	71.0	71.5	68.2	24.4	45.2	24.1	21.
45.0 45.9 47.7 48.0 50.0 50.0 50.0 53.8 55.5 57.3 58.8 61.2 63.1 63.8 60.9 47.4 40.3 41.3 43.2 50.7 52.5 54.0 56.5 58.6 59.5 56.7 43.5 35.1 36.2 40.3 40.7 42.1 44.1 45.5 47.3 48.7 55.5 54.0 56.5 58.6 59.5 56.7 43.5 29.4 30.7 32.6 52.3 53.6 54.7 55.0 35.4 38.8 41.6 42.9 42.9 48.9 47.4 35.2 29.4 30.7 32.6 52.8 39.4 35.2 32.8 32.8 32.8 32.8 32.8 32.8 32.8 32	45.0 45.9 47.7 48.0 50.0 50.5 52.0 53.8 55.5 57.3 58.8 61.2 63.8 60.2 63.8 60.3 41.3 43.1 43.4 45.4 45.8 47.3 49.2 50.7 52.5 54.0 56.5 58.3 35.1 36.2 38.1 38.3 40.3 40.7 42.1 44.1 45.5 47.3 48.7 51.3 53.2 29.4 30.7 32.6 32.8 34.7 35.0 36.4 38.4 39.8 41.6 42.9 45.6 48.2 23.1 24.6 26.5 26.6 28.4 28.8 30.1 32.1 33.5 35.2 36.6 39.4 42.	8030	43.6	50.	52.1	52.	24.5	24.8	56.3	58.1	59.8	61.6	63.2	9.59	67.2	67.8	2.49	51.0		50.5	17.
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35-1 36-2 38-1 38-3 40-3 40-7 42-1 44-1 45-5 47-3 48.7 51-3 53-6 54-7 52-3 39-4 29-4 30-7 31-7 31-5 49-6 47-4 35-2 39-4 31-7 31-7 31-7 31-7 31-7 31-7 31-7 31-7	35-1 36-2 38-1 38-3 40-3 40-7 42-1 44-1 45-5 47-3 48-7 51-3 53- 29-4 30-7 32-6 32-8 34-7 35-0 36-4 38-4 39-8 41-6 42-9 45-6 48- 23-1 24-6 26-5 26-6 28-4 28-8 30-1 32-1 33-5 35-2 36-6 39-4 42-	12500	40.0		43.1	43.	42.4	45.8	47.3	7.64	20.1	55.5	24.0		58.6	28.5	2005	43.5	34.3	15.6	6
29.4 30.7 32.6 32.8 34.7 35.0 36.4 38.4 39.8 41.6 42.9 45.6 48.2 49.6 47.4 35.2	29.4 30.7 32.6 32.8 34.7 35.0 36.4 38.4 39.8 41.6 42.9 45.6 48. 23.1 24.6 26.5 26.6 28.4 28.8 30.1 32.1 33.5 35.2 36.6 39.4 42.	16900	35.1		38.1	38.	40.3	40.7	42.1	44.1	45.5	47.3	48.7		53.6	24.7	55.3	39.4	30.1	8.2	2.4
22 1 2 6 36 6 38 1. 38 8 23 1 22 1 22 6 26 3 26 6 20 1. 1.2 2 1.1. 1 1.3 1 20 0	23.1 24.6 26.5 26.6 28.4 28.8 30.1 32.1 33.5 35.2 36.6 39.4 42.	20000	29.4		32.6	32.	34.7	35.0	36.4	38.4	39.8	41.6	45.9		48.2	9.64	45.4	35.2	55.6	3.5	•
23.1 C4.6 C0.7 C0.6 C0.6 C0.6 30.1 32.1 33.2 32.6 30.6 4C.3 44.1 4C.1 30.9		25300	23.1		26.5	26.	28.4	28.8	30.1	32.1	33.5	35.2	36.6		42.3	44.1	42.1	30.9	21.0		

10	DISTANCE =	250 FEET	I FEET) OMEGA	OMEGA 8.2 TEST 74-004-027
NOISE SOURC I-33A ENG. J3 GROUND	SUBJECT AIRCRA A-35 NUP		(OPERATION:	ATION: MAXIMUM POWER SINGLE ENGINE			E E	EOROLOGY: 59 TEMP = 59 BAR PRESS =29.92 REL HUMID = 70 TA N = 0.0 DB	F H X	AIRC OPER 119 J	MAHA
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AIRCRAFT AIRCRAFT AIRCRAFT														AIRCRAFT	AIRCRAFT AIRCRAFT
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T-37 AIRCRAFT T-37 AIRCRAFT T-37 AIRCRAFT T-37 USAF T-37 AIRCRAFT T-37 AIRCRAFT T-37 AIRCRAFT T-37 USAF T-37 AIRCRAFT T-37 AIRCRAFT T-37 USAF		ROUND BY	FT	IONS	NTS 024 A GA 6.6			ARE PROVIDED:	CE FROM AIRCRAFT	PNL, PNLT, SEL, S	PNLT, SEL,		R C E H B B B B B B B B B B B B B B B B B B	AIRCRAFT	T-37 AIRCRAFT T-37 AIRCRAFT T-37 AIRCRAFT T-37 USAF T-37 AIRCRAFT T-37 AIRCRAFT T-37 USAF
1-37 1-37 1-37		PRODUCED ON THE GROUND BY	7 AIRCRAFT	OURING FLIGHT OPERATIONS	MEASUREME T CODE: VERSION: PROGRAM OME			THE FOLLOWING DATA ARE PROVIDED:	ALIZED MEAN SPL SPECTRUM AT FNLM E LEVELS AS A FUNCTION OF SLANT DISTANCE AIR-TO-GROUND PROPAGATION	L, ALT,	SPECTRA S (AL, ALT, PNL,	08 JAN 76	L RESEA AIR FO	1-37	1-37
AIRCRAFT AIRCRAFT AIRCRAFT		NOISE PRO	1-37	DURING	FLYOVER AIRGRAF PROFILE COMPUTER				NORMALIZED MEAN SPL SPECTRUM AT PNLM NOISE LEVELS AS A FUNCTION OF SLANT AIR-TO-GROUND PROPAGATION	SOUND PRESSURE LEVEL SPECTRA SINGLE EVENT MEASURES (AL, ALT, GROUND-TO-GROUND PROPAGATION	SOUND PRESSURE LEVEL SPECTRA SINGLE EVENT MEASURES (AL, A.		T E E B S O N A S O N A	AIRCRAFT	AIRCRAFT
1-37						POWER SETTING	TAKEOFF 99% RPM CRUISE 90% RPM APPROACH 80% RPM	FOR EACH POWER SETTING,	ORMALIZED MEAN OISE LEVELS AS AIR-TO-GROU	SOUND F SINGLE GROUND-TO-G	SOUND F SINGLE		1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1-37	
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1-37 1-37 1-37														1-37	1-37

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T-37 TAKEOFF POWER SSPEED = 170 KNOTS TEMP = 59 F THORNAGE = 1000 FEET REL HUMID = 70 % X X X X X X X X X X X X X	• ×	· · ×	76.8
X X X X X X X X X X X X X X X X X X X	· × ·	•	73.1
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T-37 TEMP = 59 F ANT DISTANCE = 1000 FEET REL HUMID = 70 x	· · ·	•	53.7
30 40 50 60 70 80 80 MEAN VALUE OF NORMALIZED 1/3 08 SPL IN D8 80 37 TAKEOFF POWER 99 % RPM = 170 KNOTS TEMP = 59 F			45.2
30 40 50 60 70 80 MEAN VALUE OF NORMALIZEO 1/3 08 SPL IN DB TAKEOFF POWER 99 % RPM = 170 KNOTS TEMP = 59 F = 1000 FEET REL HUMID = 70 %		•	
37 TAKEOFF POWER 99 % RPH = 170 KNOTS TEMP = 59 F = 1000 FEET REL HUMID = 70 %	60 70 1/3 08 SPL IN DB	80	
= 170 KNOTS TEMP = 59 F = 1000 FEET REL HUMID = 70 %	× 66	I d.	
	= 59 HUMID = 70	25	2.3 PNDB
TOURT 6 6 6 100 176	24 4 00 0 - 4 0 4 - 1 0 0 - 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ALT = 9	0
DENI : 0.0-024-103-0901/6	JEN 1 1 0.0-024-103-000110	AL = y	-

	AIR-TO-GROUND	0-G	COUND	8	OPAGA	AGATION															OMEGA		9.9	
AIRCRAFT	1-37		1111	200	3	OPERA	ERATION: TAKEOFF 99 %		POWER	m (0.44)			2222	ETEOR	OROLOGY TEMP REL H	HUMI	" "	59 7	u ×		A/C OPS PROF	CODE CODE ILE	6 KE 10	24 03
					-	AI	SPE	E0 =	170	KNOT	TS		-	DELTA	" Z	:	8			-	PAGE	!		•
SLANT DISTANCE (FEET)	17	18	19	20	12	22	23	54	52	FREQ 26	QUENCY 27 26	28 BA	200	NUMBER 30 31	31	32	33	34	35	36	37	38	39	04
200	12	7.1	_	76	86	9	•	2.0	45	47	86	9.8		47	96	47	96	26	96	10	91	88	85	œ
250	70	69	99	1.	84	89		91	96	95	96	96		95	76	95	36	76	93	92	88	85	82	1
315	68	29	9	72	82	87	88	68	93	93	76	6	96	93	91	93	95	95	91	89	96	82	78	73
004	99	69		20	80	85	9	87	91	91	92	92		91	89	06	06	06	89	98	83	62	12	9
200	49	63	29	89	8.2	83	2	94	68	68	06	90		89	87	88	87	87	98	83	80	75	20	ø
630	9	61		99	15	81	7	82	87	87	88	88		86	85	98	85	85	83	80	11	7.1	99	5
800	09	66		19	73	62	6	80	49	85	98	85		94	82	83	82	82	80	11	73	29	9	5
1000	9.6	25		62	11	11			82	82	84	83	83	82	80	81	80	62	77	73	69	62	24	4
1250	96	55		09	69	75			80	80	81	81	81	62	11	18	11	92	73	69	49	99	46	32
1600	24	53		58	29	73			78	82	64	7.8	78	11	75	15	14	72	69	99	66	64	37	~
2000	25	51	20	96	69	71	11	72	92	92	11	92	92	74	72	72	20	89	69	28	25	41	27	
2500	20	64		24	63	89			14	73	14	14	73	7.1	69	69	99	49	66	25	45	32	14	
3150	48	14		25	61	99			7.1	71	72	7.1	2.0	89	69	65	62	66	53	44	36	20		
0004	94	45		20	66	49			69	89	69	89	29	69	62	61	25	53	94	35	56	9		
2000	44	43		2+	25	9			99	99	99	65	49	61	25	96	25	94	38	54	13			
6300	45	41	39	45	24	66			49	63	63	62	09	25	53	20	42	38	28	11				
8000	94	39		43	25	25			61	09	09	28	96	25	14	*	37	53	16					
10000	38	36		41	20			2	58	99	96	24	51	14	41	36	28	17	-					
12500	35	34		38	14			7	24	53	55	64	45	0+	33	27	17	m						
16000	33	32	30	36	**	64	84	48	51	64	24	43	39	33	54	16	4							
20000	31	59		33	14			1	47	77	42	27	4.4	70										
The state of the s				-	-			+	-	-	,	5	1	-	**	,								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

AIR-TO-G	AIR-TO-GROUND PROF	PAGATION						OMEGA 6.6
AIRCRAFT:		(OPERATION: (TAKEOFF	POWER		METEOROLOGY: TEMP REL HU	MID = 5	F 2 0	A/C CODE: 024 OPS CODE: 103 PROFILE VER: A
		(AIRSPEED	= 170 KNOTS	15	DELTA N =	0.0 08		08 JAN 76 PAGE I1
SLANT DISTANCE	Ar.	ALT**	PNL	PNLT**		SEL	SELT**	EPNL**
(FEET)	(08A)	(DBA)	(PN08)	(PN08)		(08)	(08)	(EPNDB)
200	107.3	107.3	120.0	120.0		107.2	108.2	110.7
250	105.1	105.1	117.7	117.7		106.0	107.0	109.4
315	102.9	102.9	115.3	115.3		104.8	105.8	108.1
004	100.6	100.6	112.9	112.9		103.6	104.5	106.7
200	98.3	98.3	110.5	110.5		102.2	133.2	105.2
630	6.56	45.9	107.9	107.9		100.9	101.8	103.6
800	93.5	93.5	105.2	105.2		4.66	100.4	101.9
1000	91.0	91.0	102.3	102.3		97.9	98.9	100.1
1250	88.4	88.4	99.3	99.3		96.3	97.3	98.0
1600	85.7	85.7	9	96.1		9.46	95.6	95.8
2000	82.9	82.9	95.6	95.6		95.8	93.8	93.4
2500	80.0	80.0	6	89.1		6.06	91.9	6.06
3150	6.92	6.92	S	85.8		68.9	89.8	88.6
000+	73.8	73.8	82.4	82.4		86.7	87.5	0.98
5000	4.07	70.4		78.9		84.4	85.0	83.2
6300	6.99	6.99	è	75.1		81.9	82.3	80.3
8000	63.2	63.2	+	71.2			4.62	77.1
10000	59.3	59.3	67.1	67.1		76.2	76.2	73.8
12500	55.1	55.1	62.7	62.7		73.0	73.0	70.4
16000	50.6	50.6	58.1	58.1		9.69	9.69	8.99
20000	45.8	45.8	52.9	52.9		65.7	65.7	62.7

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

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	200	-0	0-6R	GROUND-TO-GROUND	PR	OPAGATION	TION													-	OMEG	A 6.	9	
AIRCRAFT	- 12				1	OPER	RATION: TAKEOFF 99 X						2000	ETEOR	TEOROLOGY: TEMP REL HL	HUMI		59 F 70 %			A/C OPS PROF	CODE FLE	# 02 # 10 VER:	4 m d
					-	A !	AIRSPE	0 !	= 17	KNOT	OTS		0	DELTA	" Z	0.0	80			•	PAGE	=		
SLANT DISTANGE (FEET)	17	91	61	50	27	22	23	24	52	FRE 26	QUENCY 27 2	e0 e0	2 9 8 9	NUMBE 30	31	32	8	4 6	32	36	37	89	39	6
200	67	99	65	71	81	86	87		92	92	93	93	6	6	91	92	9	32	9	89	9		6	7
250	65	99	63	69	19	84	85		9.0	90	91	91	9.6	90	6	0.6	6	6	88	87	, M		11	
315	63	62	61	29	11	82	83	48	88	88	68	89	6 8	88	86	8 8	87	87	86	94	81	11	73	9
004	61	99	59	65	75	80	8.0		86	86	87	87	87	86	84	85	85	85	84	81	00		69	79
500	29	58	25	63	72	11	78		94	84	85	85	85	84	82	83	82	82	81	7.8	S		65	59
630	22	99	52	61	20	15	75		82	82	83	83	82	81	80	81	80	80	7.8	25	2		61	5
800	25	24	53	59	19	72	12		62	80	81	90	80	4	11	8 2	11	11	75	7.5	60		25	4
1000	53	52	51	96	49	69	20		11	11	4	78		77	15	92	75	14	72	80	49		64	m
1250	51	20	48	53		99	99		14	15	91	92		14	72	73	72	7.1	89	4	66		41	27
1600	64	14	45	64		62	63		17	73	14	73		72	20	20	69	29	94	6	24		32	7
2000	94	43	41	45	24	29	69	09	29	71	72	7.1	7.1	69	29	29	69	63	60	53	11	36	22	٦
2500	43	04	37	41		24	52		63	29	69	69		99	49	49	61	29	24	1	0 +		6	
3150	39	35	32	36		64	20		65	63	99	99		63	9	9	25	54	48	6	31			
0004	34	30	27	31		**	44		24	58	62	9		09	25	99	55	8 4	41		21	-		
2000	53	25	22	56		39	39		84	55	58	58		56	55	51	14	41	33	6	80			
6300	54	21	17	21		34	34		42	14	53	54		55	84	45	0+	33	23	9				
8000	22	19	15	13		31	31		39	ţ	20	20		14	45	39	32	54	11					
10000	20	16	13	17		59	59		36	04	94	46		42	36	31		12						
12500	17	14	11	14		56	56		32	37	42	41		35	28	22	12							
16000	15	12	80	12	19	23	23	23	53	33	37	35	33	28	19	11								
20000	13	6	9	6		20	10		25	28	22	20		0	c									
						;)	2	30	2		13	,									

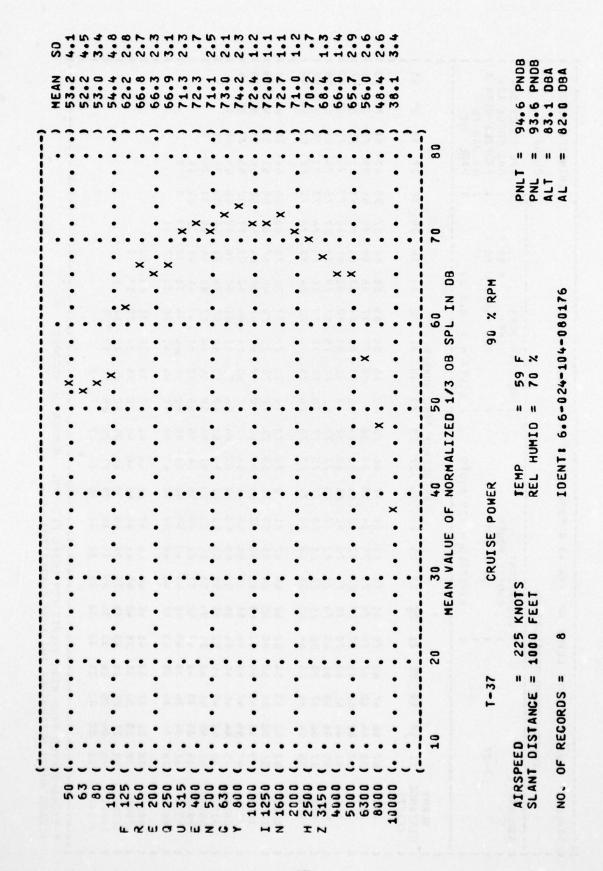
EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
* BAND WHICH DETERMINES THE TONE CORRECTION (C).

GROUND-T	GROUND-TO-GROUND P	PROPAGATION					•	OMEGA 6.6
AIRCRAFT: T-37		(OPERATIONS (TAKEOFF (99 %	POWER RPM		METEOROLOGY: TEMP REL HU	# 0 IM	59 F)	A/C CODE: 024 OPS CODE: 103 PROFILE VER: /
		(AIRSPEE!	D = 170 KNOTS) ts	DELTA N =	0.0 08	^^	08 JAN 76 PAGE M1
SLANT DISTANCE	¥	ALT**	PNF	PNLT**		SEL	SELT**	EPNL **
(FEET)	(DBA)	(08A)	(PNOB)	(PNDB)		(08)	(08)	(EPNOB)
200	102.3	102.3	115.0	115.0			103.2	105.7
250	10001	100.1	112.7	112.7		101.0	102.0	104.4
315	6.76	97.9	110.3	110.3		8.66	100.8	103.1
004	92.6	92.6	107.9	107.9		98.6	66.5	101.6
200	93.3	93.3	105.4	105.4		97.2	98.2	100.1
030		6.06	102.8	102.8		95.9	20.0	98.5
800	88.5	88.5	100.0	100.0		7.46	95.4	2.96
1000	85.9	85.9	97.1	97.1		92.9	93.8	8.46
1250	83.3	83.3	93.9	93.9		91.2	92.2	95.6
1600	80.5	80.5	90.6	90.5		89.5	90.5	90.2
2000	77.7	7.77	86.8	86.8		87.6	88.6	87.5
2500	74.6	74.6	83.0	83.0		85.5	86.5	1.48
3150	71.2	71.2	78.9	78.9		83.2	84.1	81.6
0004	67.5	67.5	74.5	74.5		90.4	81.2	78.0
2000	63.3	63.3	9.69	9.69		77.2	77.8	14.0
6300	58.7	58.7	4.49	4.49		73.6	74.0	9.69
8000	54.4	54.4	2.65	2.65		70.3	70.5	65.7
10000	1.64	1.64	3	54.8		9.99	9.99	61.6
12500	44.6	9.44	σ	4.64		65.5	62.5	57.1
16000	39.0	39.0	~	45.9		57.9	57.9	51.6
20000	32.8	32.8	35.5	35.5		52.7	52.7	45.2
00000			1					

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

REL HUMID = 70 %	250 (.	1-37 99 AIRSPE	T X RPH EED = 170	4	POWER							×			*
10ENT# 6-6-024-103-080176-A 10ENT# 6-6-024-103-A 10ENT# 6-6-024-A 10ENT#	5	TEMP OFLIA	L 11			20					×			×	
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SROUND T GROUND T GROUND T H # # # #		:	:		· · · · · ·	· ×	:	:	:	•	:		•	:	
GROUND TO GROUND TO F = PN F = PL K = AL A = AL			•		×	•		•				•			
GROUND TO GROUND TO R = PN K = PL K = AL A = AL			× .	×		•				•				•	
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	AIR-	AIR-TO-GROUND	ROUN	ID PRO	OPAG	ATION	z														OMEGA	9 V	9	
AIRCRAFT	1-37					OPER	RATIONS CRUISE	E POWER	PA		a la		2000	METEOROLOGY: TEMP REL HU	ROLO	GY: HUMID	" 01	59	L 24	ĵ	A/C OPS PROF	001	1 102 VER:	4 t
						A	IRSP	EED	= 22	5 KNOT	ors			DELTA	Z	0	0 08				PAGE	HZ	٥	
SLANT										FRE	DEN	0	AND	NUMBE	ER									
DISTANCE (FEET)	17	18	19	20	51	22	23	54	52	56	26 27 26	88	53	30	31	35	33	34	35	36	37	38	39	3
200	19	99	20	69	16	81	81			87	86	88	89	88	88	89	88	88	87	98	18	81	82	75
250	69	49	69	29	14	19	62			85	84	98	87	85	85	87	85	85	85	48	85	78	75	71
315	63	62	63	69	72	11	11	11	82	83	82	94	85	83	83	84	83	83	82	81	82	15	7.1	67
004	61	9	61	63	20	15	14			81	80	82	83	81	81	82	81	81	80	62	62	72	68	63
200	29	28	23	9	68	73	72			62	11	62	91	13	4	80	19	78	11	92	92	69	19	58
630	25	96	25	28	99	71	20			11	22	11	62	11	11	18	92	92	14	73	73	65	66	52
800	22	24	22	26	19	69	99			7.	73	15	92	12	14	12	14	73	72	20	20	61	24	46
1000	53	55	53	54	62	19	99	67	11	72	71	73	14	72	72	73	71	7.0	89	99	>99	26	48	38
1250	51	20	51	52	9	65	49	65	69	20	69	7.1	72	20	20	20	89	29	65	62	61	51	41	29
1600	64	48	64	20	28	63	62	63	29	89	29	68	20	29	29	29	69	19	61	25	99	14	33	18
2000	47	94	24	48	26	19	09	61	65	99	49	99	29	69	49	49	62	9	25	25	20	37	23	4
2500	45	1.	45	94	24	28	28	28	63	63	62	49	99	62	61	61	58	26	25	46	**	28	11	
3150	43	42	43	44	55	96	99	96	9	61	69	61	62	29	28	25	75	51	94	39	36	18		
0004	41	04	41	74	20	24	53	24	58	69	25	58	66	99	24	53	20	46	40	31	92	S		
2000	39	38	39	40	47	25	51	51	25	99	24	22	52	55	20	49	*	0 4	32	20	14			
6300	37	36	36	38	45	20	64	64	53	53	51	25	55	48	94	**	38	32	23	00	0			
0008	35	34	34	35	43	14	45	46	20	20	48	4 9	4 8	t t	41	38	31	23	11					
10000	33	31	32	33	1,	45	1 1	*	14	147	1,	+	43	39	35	31		13						
12500	30	53	30	31	38	42	41	41	*	43	40	04	38	33	28	22	13	0						
16000	28	27	27	28	35	39	38	37	0 4	39	36	35	32	56	20	12								
20000	92	54	25	56	33	36	35	34	36	35	31	59	52	18	10	0								
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* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: < BAND WHICH DETERMINES THE TONE CORRECTION (C).

AIR-TO-6	AIR-TO-GROUND PROP	PAGATION				^ ^	OMEGA 6.6
AIRCRAFT: T-37		OPERATION: CRUISE POWER 90 x RPM	POWER RPM	222	HETEOROLOGY: TEMP REL HUMID =	= 59 F) = 70 %)	A/C CODE: 024 OPS CODE: 104 PROFILE VER:
		(AIRSPEED	.0 = 225 KNOTS) trs	DELTA N = 0.0 08	~ ~	UB JAN 76 PAGE I2
SLANT DISTANCE	A.	ALTOO	PNL	PNLT**	SEL	SELT**	EPNL**
(FEET)	(08A)	(08A)	(PNDB)	(PN08)	(80)		(EPND8)
200	98.5	99.66	111.2	112.3	9.76	9 99.2	101.6
250	96•3	4.76	108.9	110.0	7.96		100.4
315	94.1	95.2	106.6	107.6	95.5	8 96 9	0.66
004	91.8	92.9	104.5	105.2	94.		9.76
200	89.5	90.5	101.7	102.7	92.6		96.1
630	87.1	88.1	99.1	100.2	91.		9.46
800	84.6	85.6	4.96	97.5	1.06		95.8
1000	82.0	83.1	93.6	94.6	4.88	1.68	91.0
1250	19.4	90.4	9006	91.6	86.8		89.0
1600	76.7	11.11	87.3	88.4	85.6		86.8
2000		6.42	84.0	85.0	83.2	84.5	84.4
2500		71.9	80.6	81.6	81.	82.	82.0
3150	67.8	68.8	77.0	78.0	79.5	80.	4.67
000+	9.49	65.4	73.1	73.9	76.9		76.2
2000	61.2	61.8	69.2	6.69	74.6	75.	73.2
6300	9.76	58.0	65.5	69.6	72.0	72.	70.2
8000	53.8	54.0	61.6	61.8	69.5	69	67.0
10000	8.64	8.64	57.3	57.3	66.5	99	63.5
12500	45.6	45.6	52.8	52.8	63.0	63.	0.09
16000	41.1	41.1	47.8	47.8	59.5	59.5	56.0
20000	36.3	36.3	42.0	42.0	55.1	55.	51.1
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* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

									• • • •								:			•	GROUND			
	*	•		•	.P.			•		•				•	•			•	•	•	P = PNLT	+ = PNL + = ALT	A = AL	
	•	A+ .			•	*	0	•	*P	0.70				•		# 10 m			•	•			•	
	•	•			A . + .	A .			• • • • • •	**	•		d.					2 1	•	•	- 1700		•	0
C		. ×			•				A+	A +	Α+ .	0.0000	A+	*.	•	• •			100	•		•		
POWER		= 70		0.80176-A		1 30 0		•		•			•	• A•	A+.	· ×	d* · · ·	×	•		•			
CRUISE	225		2	6-6-024-104-0	•									•	1000	8 × 50	A+	*	× •	· · · · ·	×	90.00.00		
I-37	90 % RPM	TENP = 59	DELIA N =	TOPNIE 6.6			9	•	•					٠				(2007)	•	× · · ·	×	×	• • • • • • •	u
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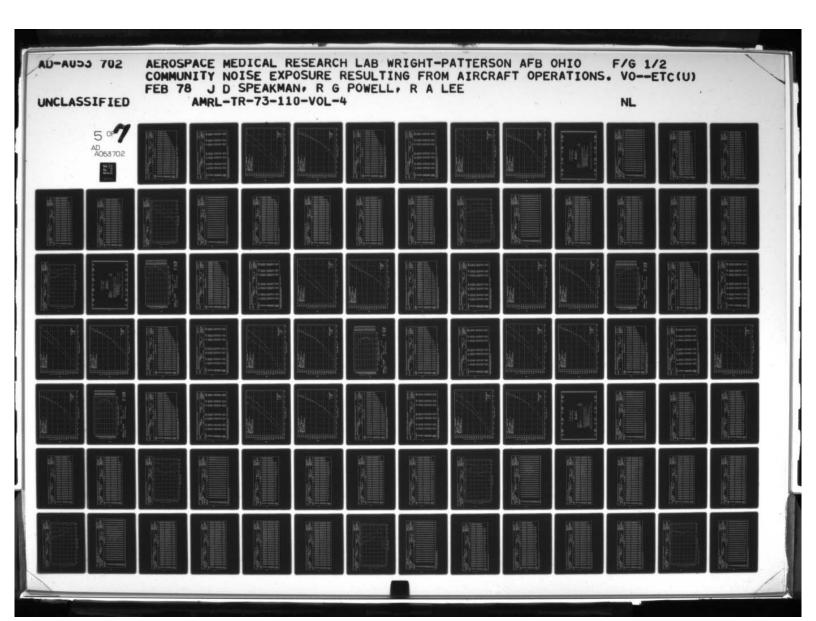
* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

	GROUND-TO-GROUND F	8					•	OMEGA 6.6
AIRCRAFT: 1-37		COPERATIONS CRUISE POWER CORUSE POWER	POWER X RPM	222	METEOROLOGY: TEMP REL HU	# O.F	59 F)	337
		(AIRSPEED	.D = 225 KNOTS)TS	DELTA N =	0.0 08		08 JAN 76 PAGE M2
SLANT DISTANCE	AL	ALT**	PNL	PNLT**		SEL	SELT**	EPNL**
(FEET)	(08A)	(DBA)	(PN08)	(PN08)		(08)	(08)	(EPNDB)
200	93.5	94.6	106.2	107.2		92.9	94.2	9.96
250	91.3	95.4	103.9	105.0		91.7	93.0	95.3
315	89.1	90.2	101.6	102.6		90.5	91.8	0.46
004	86.8	87.9	99.1	100.2		89.2	90.5	95.6
200	84.5	85.5	9.96	7.76		87.9	89.1	91.1
630	82.1	83.1	0.46	95.1		86.5	87.7	4.68
800	9.62	90.08	91.2	92.3		85.0	86.2	7.78
1000	77.0	78.1	88.3	4.68		83.4	84.7	85.8
1250	7.4.2	75.4	95.2	86.2		81.7	83.0	83.6
1600	71.6	72.6	81.8	82.9		89.0	81.3	81.3
2000	68.7	8.69	78.3	79.3		78.1	19.4	78.7
2500	9.59	2.99	74.6	75.6		76.0	77.3	76.0
3150	62.3	63.4	70.5	71.6		73.7	75.0	72.9
4000	58.7	59.5	0.99	66.8		71.1	72.1	69.2
2000	24.6	55.3	61.1	61.7		68.0	68.8	65.0
6300	50.5	90.6	55.8	56.2		9.49	65.1	60.5
8000	45.9	46.1	51.0	51.2		61.3	61.5	56.4
10000	41.2	41.2	TU.	45.1		57.6	57.6	51.3
12500	36.1	36.1	8	38.3		53.5	53.5	45.5
16000	30.5	30.5	30.7	30.7		48.9	6.84	38.9
20000	24.3	24.3	(3	2002		43.7	43.7	29.4
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* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

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	ALKSPEEU = 225 TEMP = 59 F		7 0 %	•	•		S
	DELTA N = G.	0					
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30 40 N VALUE OF NOR	50 50 50 50 50 50 50	60 NI 198	7.0	80		
APPROACH POWE	œ	80 % RPM				
S TEM	IP = 59 F . HUMID = 70 %		PNLT	11 11	* *	8 8
105		-080176	ALT	11 11	20	
	X. 30 VALUE OF	X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X



	AIR-	10-6	AIR-TO-GROUND	O PRO	PAG	4	TION										9				OMEG	9	4	OMEGA 6.6
AIRCRAFT						90	RATIONS		POWER	~			E	ETEOROLOGY TEMP	TEMP	*	"	59 5			A/C OPS	88	# 02 # 10	a to
	2					4	a H	0.1	21	5 KNOT	213			ELTA	7 7 N	0.0	0	- 1			PAGE	JAN 7 GE H3	u., !	
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	54	52	FREG 26	EQUENCY 27 28	2¥ BA	088	30	51 31	32	m m	34	35	36	37	38	39	64
200	71	69	7.0	72	62	85	87		91	92	92	92		90	683	6	89	68	88	86	9	81	77	1
250	69	29	99	20	11	83	85	88	68	8	89	90	68	88	87	87	87	87	86	78	48	182	14	69
315	29	9	99	68	52	81	83		87	88	87	88		86	85	85	85	84	83	81	-	15	11	9
004	69	63	19	99	73	62	81		82	98	85	85		94	83	83	82	82	81	7.8	8	72	29	ø
200	63	61	62	49	11	11	62		83	84	83	83		82	81	81	80	80	18	15	2	69	63	ī
630	61	29	9	62	69	75	11		81	82	81	81		79	18	92	28	11	75	72	2	65	58	4
800	29	25	28	99	29	73	15		13	80	62	62		11	92	92	52	1.	72	69	80	9	25	4
1000	57	55	96	58	9	17	73		92	78	11	11	91	25	74	73	72	7.1	69		+	55	94	2
1250	55	53	53	96	63	99	7.1		14	25	15	15	14	72	7.1	20	69	68	69		6	64	38	23
1660	53	51	51	24	61	99	69		72	73	72	72	7.1	20	68	68	99	49	61		ŧ	42	53	+
2000	51	64	64	25	66	49	29	69	20	11	20	20	69	29	99	49	63	61	25	20	84	34	18	
2500	64	24	14	20	25	62	99		99	69	89	29	99	49	62	61	66	96	51			52	2	
3150	14	45	45	48	25	99	62		65	99	69	65	63	61	29	25	24	51	45		-	13		
4000	45	43	43	45	53	28	9		63	49	62	62	6.0	58	52	53	20	45	38		21			
2000	43	41	41	43	20	25	50		9	61	66	66	96	24	51	48	11	38	30	15	80			
6300	41	38	39	41	48	53	25		28	28	26	25	53	20	94	42	37	30	19	~				
8000	39	36	37	39	94	21	53		25	25	53	51	48	42	41	36	53	21	~					
10000	36	34	34	36	43	48	20		25	51	64	24	1 1	39	34		20	6						
12560	34	35	32	34	41	45	47		8 4	48	45	75	38	33	27	19	6							
16000	32	53	30	31	38	43	\$ \$		45	43	04	37	32	25	18									
20000	30	27	27	53	35	39	41	42	0 4	39	35	30	54	16	2									
00000						-	-		•	-	4			-										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8 ** BAND WHICH DETERMINES THE TONE CORRECTION (C).

	AIR-TO-GROUND PROP	PAGATION					•	OMEGA 6.6
AIRGRAFT : T-37		(OPERATION: (APPROACH POWER (80 % RPM			ROLOGY TEMP REL H	HI	7 × 0	A/C CODE: 024 OPS CODE: 105 PROFILE VER: 0
		AIRSPEED	= 105 KNOTS	15	DELTA N = 0	0.0 08	^	PAGE 13
SLANT DISTANCE	Ar.	ALT**	PNL	PNLT**		SEL	SELTO	EPNL **
(FEET)	(08A)	(D8A)	(PNDB)	(PNDB)		(00)	(00)	(EPNOB)
200	100.4	100.4	113.1	113.1		103.0	104.2	106.9
250	98.2	98.2	110.8	110.8		101.8	103.0	105.6
315	0.96	0.96	108.5	108.5		100.6	101.8	104.3
004	93.8	93.8	106.1	106.1		99.3	100.6	102.9
200	91.5	91.5	103.6	103.6		98.0	99.3	101.4
630		89.1	101.0	101.0		2.96	6.76	
860	86.7	86.7	98.3	98.3		95.2	36.5	98.1
1000	84.2	84.2	95.4	95.4		93.7	95.0	96.3
1250	81.6	81.6	95.4	92.4		92.2	93.4	2**6
1600	79.0	0.62	89.2	89.2		90.5	91.8	92.0
2000	76.2	76.2	85.9	85.9		88.8	0.06	89.7
2500		73.4	85.8	85.8		87.0	88.2	9.78
3150	70.5	70.5	19.6	79.6		85.0	86.3	85.5
0004	4.19	4.79	76.3	76.3		82.9	83.9	82.9
5000	64.1	64.1	72.9	72.9			81.4	80.2
6300		60.7	69.5	69.2		78.3	78.8	77.3
8000	57.2	57.2	65.4	65.4		2	16.0	74.2
10000	53.3	53.3	61.3	61.3		72.9	72.9	70.9
12500	49.3	49.3	56.8	56.8		69.8	69.8	67.4
16000	6.44	6.44	51.9	51.9		66.5	66.5	63.5
20000	40.3	40.3	46.4	46.4		62.8	62. A	59.0
						,	200	

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

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1-37	AIRSPEED TEMP = 59	DEL	NO. OF				•			•				•			•			•	
80	SPE	TA	0							:				:			:				-
×	500	z	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	100
T	11 4	"	003				•							•			•				1-
4	105	•	RECORDS	•													:				-
-		9		•			•			•				•			•			•	
PROACH	KNOTS PFI HIMTO	08	80 1				:	•				•	•	:							1 0
I			24.100	•						•				•			•			•	÷.
POWER	c		1																		
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	GROU	1-0N	GROUND-TO-GROUND	ONNO		0	AGATION														OMEGA 6.6	A 6	9
AIRCRAFT	1-37			225		OPER	APPROACE 80 %	NG H	TION: PROACH POWER 80 % RPM	! ~			HET	TEOR	TEOROLOGY S TEMP REL HU	1 1	" "	59 F		7	A/C OPS PROF	SODE SODE TLE	# 02 # 10 VER#
					-	4	IRSPE	9 !	= 105	5 KNOT	TS		3	ELTA	" Z	0:0	88			-	PAGE	2	
SLANT DISTANCE (FEET)	11	18	19	20	27	25	23	54	52	FREQ 26	QUENCY 27	3Y BA 28	0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	NUMBE 30	3 Y	32	33	34	35	36	37	80	39
200	99	44	4	67	74	9	82			47	7 0	87		S S	77 0		1	77 8	2				22
		5 0	3 3	9	1 .	9 6	0 0			2 4		, u		0 0	100			* *	2 4	٠, ٥	4 0		
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007	9 6	9 6	2 0	3 5	9 4	242	26			2.4	3 6	8 9		100	9 6		, n	11	26	o ~	o ~		2 0
200	28	26	25	200	99	1 2	7.	17	282	3 5	78	28	8 6	12	92	16	75	75	30	202	202	9	280
630	26	24	55	25	99	68	7.1			11	92	92		42	73		2	22	20	~	~		53
800	24	25	53	25	61	99	99			52	42	42		72	11		0	69	29		m		1.1
1000	52	20	51	55	58	63	69		11	73	72	72	7.1	0.2	69		29	99	19	0	6		11
1250	20	48	47	64	52	9	62		69	20	0.2	20	69	29	99		49	63	90	9	4		33
1600	48	45	† †	45	51	26	29		69	68	29	29	99	65	63		61	66	96	1	6		54
2000	45	41	04	41	48	55	52	58	61	99	9	69	49	62	61	59	58	96	52	45	43	59	13
2500	41	37	36	37	43	48	20		25	62	62	62	61	66	25		75	51	94	6	2		0
3150	37	33	32	32	38	43	45		53	58	59	09	58	99	24		64	94	0 4	-	9		
4000	33	28	56	27	33	37	40		48	53	52	96	55	53	20		45	0 4	33	-	16		
2000	28	23	21	22	28	32	35		45	84	51	52	51	64	94		39	33	25	10	m		
6300	23	18	11	17	23	28	30		36	45	94	47	14	45	41		32	25	14				
8000	21	16	15	15	21	52	27	30	33	39	43	43	45	0 4	36		54	16	2				
10000	18	14	12	12	18	23	54			35	39	39		34		23	15	4					
12500		12	10	10	16	20	22			32	35	34		28			t						
16000	14	6	00	1	13	17	18	20	23	22	30	59	56	20	13	2							
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25000	c	-	•	,	•	,	,				0			•									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
* BAND WHICH DETERMINES THE TONE CORRECTION (C).

1 1 1 1 1 1 1 1 1 1	GROUND-10-GROUND PR	PROPAGATION					-	OMEGA 6.6
AIRCRAFT: T-37		OPERATION: APPROACH POWER 80 % RPH	POWER RPM		METEOROLOGY: TEMP REL HU	Y: = 59 HUMID = 70	ш ж	A/C CODE: 024 OPS CODE: 105 PROFILE VER:
		AIRSPEED) = 105 KNOTS	TS)	DELTA N = 0	0.0 08		US JAN 76 PAGE M3
SLANT DISTANCE	A.	ALTOO	PNL	PNLT**		SEL	SELT**	EPNL **
(FEET)	(08A)	(DBA)	(PN08)	(PN08)		(00)	(08)	(EPNDB)
200	95.4	4.56	108.1	108.1		98.0	99.2	101.9
250	93.2	93.2	105.8	105.8		96.8	98.0	100.6
315	91.0	91.0	103.4	103.4		9.56	96.8	99.3
004	88.8	88.8	101.0	101.0		94.3	95.6	6.76
200	86.5	86.5	98.5	98.5		93.0	94.3	4.96
630	84.1	84.1	696	62.6		91.6	95.9	2.46
900	81.7	81.7	93.1	93.1		90.2	91.5	92.9
1000	79.1	79.1	90.1	90.1		88.7	89.9	6.06
1250	76.5	76.5	86.9	86.9		87.1	88.3	88.8
1600	73.8	73.8	83.5	83.5		85.4	96.6	86.3
2000	71.0	71.0	6.62	79.9		83.5	84.8	83.8
2500	6.79	6.79	76.1	76.1		81.4	82.7	81.0
3150	64.5	64.5	72.2	72.2		19.0	80.3	78.0
0004	60.7	2.09	67.8	67.8		76.3	77.3	74.4
5000	56.5	56.5	62.8	62.8		73.0	73.8	70.1
6300	51.8	51.8	51.5	57.5		4.69	6 * 69	9.59
8000	47.5	47.5	52.7	52.7		66.1	66.3	61.5
10000	42.9	45.9	47.3	47.3		62.4	62.4	56.9
12500	37.8	37.8	41.3	41.3		58.4	58.4	51.9
16000	32.2	32.2	34.2	34.2		53.8	53.8	45.8
20000	26.1	26.1	7 90	26.4		48.7	1.0 7	28.0
	4.01	1.03	1.07	**07			*00	

** EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

T-37 41RSPEED = 105 KNOTS 10 X RPH 10 0 10
= 70 % x
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A RISPED = 105 KNOTS OELTA N = 0.0 08 N0. OF RECORDS1 8 IDENT! 6.6-024-105-080176-A ST E ST ST E ST E ST ST ST E ST S	250 (.	80 % RPH			•	. ST .E
1 DENT: 6.6-024-105-080176-A 1 DENT: 6.6-024-105-080176-A 2 ST E 3 ST E 5 ST C 5 ST C 5 ST C 5 ST C 6 ST C 7 ST C 8	315 (.	AIRSPEED = TEMP = 59 F	105 KNOTS REL HUMI	= 70		. ST E.
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TS AIRCRAFT T-378 AIRCRAFT T-378 AIRCRAFT T-378 AIRCRAFT T-378 AIRCRAFT		OUND BY		RATIONS	D28 024 A GA 8.2	PAGE		ARE PROVIDED:	FREQUENCY STANCE FROM SOURCE	EL SOUND LEVEL 250 FEET FROM SOURCE		RCH LABORATORY RCE BASE, OHIO	78 AIRCRAFT T-378 AIRCRAFT
AIRCRAFT T-378 AIRCRAFT T-378 AIRCRAFT T-378		NOISE PRODUCED ON THE GROUND BY	T-378 AIRCRAFT	DURING GROUND RUN-UP OPERATIONS	TEST 74-004-028 AIRCRAFT CODE: 024 PROFILE VERSION: A COMPUTER PROGRAM OMEGA			SETTING, THE FOLLOWING DATA ARE PROVIDED:	MALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY NORMALIZED SPL AT 250 FEET SE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE	IVED NOISE LEV JND LEVEL SHTED OVERALL I OF ANGLE AT	13 FEB 76	MEDICAL RESEARTERSON AIR FO	AIRCRAFT T-378
1-378 1-378 1-378						POWER SETTING	37% RPM	FOR EACH POWER S	NORMALIZED DATA AS NORMALIZED SPL NOISE LEVELS AS A F	PERCEIVED NOISE LEVEL TONE-CORRECTED, PERCEI A-WEIGHTED OVERALL SOI TONE-CORRECTED, A-WEIG NOISE LEVELS AS A FUNCTION		EROSPACE RIGHT-PAT	1-378
AIRCRAFT AIRCRAFT												43	AIRCRAFT
1-378													1-378

TABLE: NOR 1/3	NORMALIZED 1/3 OCTAVE DISTANCE =	SOUND BAND 250 F	NO FRE	SSURE	LEVEL	:r (08)	2									DENTIF OMEGA TEST 7	1CATI 8.2 4-004	-028	
NOISE SOURCE/SUBJECT T-378 AIRCRAFT ENG. J69-T-25 GROUNJ RUNUP	/SUBJEC AIRCRAF -25 UP	=-		OPER	ERATION: IDLE, 37; SINGLE EN	219	T W			METE BAB DELT	METEOROLOGY: TEMP BAR PRESS REL HUMID DELTA N = -3		59 92 70 70	F N X		AIRCRAFT CODE OPERATION CUDE PROFILE VERSION 13 FEB 76	FT C ION C E VER 76	ODE	024 02013 A
BAND CENTER FREQ (HZ)	9	10	20	36	3	50	3	A O V	ANGLE (0 6	EES)	110	120	130	140	150	160	170	180
9.6	61	61	61	96	25	50	99	58	19	66	65	58	62	9	61	63	61	9	57
63	9	9	63	58	00	09	60	09	29	63	61	61	69	69	63	94	62	28	58
9.0	66	25	61	96	25	25	58	58	58	58	58	99	66	63	19	79	62	25	57
100	65	29	65	96	28	9	66	61	61	29	28	49	29	99	19	99	63	554	55
125	61	61	61	61	29	7.1	72	72	72	29	69	72	1.	92	22	7.	69	22	534
100	2 1	10	19	09	63	62	10	60	80	99	99	99	60	0.2	7.1	02	62	200	52
250	62	63	0,0	200	63	0 0	2 2	000	0 0	200	0 0	200	200	63	6 6	0 9	9 0	2 2	18
315	19	10	63	09	00	99	9	65	65	63	9	23	57	62	29	909	28	94	46
436	63	9	63	09	66	49	63	19	65	99	61	09	09	62	28	65	28	45	454
200	63	69	40	61	58	29	49	29	99	69	63	9	61	62	25	99	53	41	434
630	99	99	99	62	19	99	69	65	69	65	9	61	62	61	96	53	53	04	414
830	68	68	99	63	9	69	49	99	90	99	63	62	49	62	96	24	25	39	39
1000	7.0	7.1	99	29	99	69	99	7.1	20	89	65	63	19	61	96	25	25	41	38
1250	73	14	20	10	7.0	7.1	20	7.1	7.0	67	9	63	63	61	96	22	25	43	41
1600	92	15	20	7.1	11	7.0	68	7.0	63	68	69	9	61	9	96	25	51	42	40
5000	100	86	95	95	90	68	98	68	82	87	62	78	92	62	14	72	68	61	60
2500	58	88	82	83	81	80	11	81	14	78	7.0	20	29	68	69	63	29	25	20
3150	72	70	65	69	29	20	68	71	49	63	61	29	58	25	24	51	46	40	38
0004	81	48	80	96	11	11	22	20	14	71	62	9	61	62	29	55	20	44	745
2000	72	11	73	14	72	72	. 11	7.0	69	99	61	29	25	58	25	25	94	0 7	37
6300	92	80	1.4	72	17	72	99	73	69	69	09	96	22	53	21	8	45	39	36
9016	7.0	14	99	69	29	90	69	99	63	9	26	53	20	64	47	45	0 7	35	34
10,00	19	99	62	62	61	61	60	62	28	52	53	20	64	45	43	41	35	31	30
OVERALL	101	66	93	93	16	9.6	87	9.0	92	88	81	81	8.0	82	8 0	62	75	29	99

XXXX = EXTRAPOLATED OR INTERPOLATED SPL

NOISE SOURCE/SUBJECT: T-37B AIRCRAFT ENG. J69-T-25	SAF	UNCTIO	AS A FUNCTION OF ANGLE		AND DIS	DISTANCE	FROM S	SOURCE								OMEGA		4-028	
	E SOURCE/SUBJ T-37B AIR ENG. J69-T-25 GROUND RUNUP	RCETSUBJECT: AIRCRAF J69-T-25 D RUNUP	_ F		O P E K	OPERATIONS IDLE, 3 SINGLE	ATION! IDLE, 37% RPM SINGLE ENGINE			2000	METEOROLOGY: TEMP BAR PRES REL HUMI	PRESS HUMID	= 59 = 29.92 = 70	9 F 2 IN HG		AIRCRAF OPERATI PROFILE 13 FEB	10 2 H	CODE CODE RSION	020 02013 A
DISTANCE (FEET)	,	61	20	30	0,	50	9	2.	ANGLE		(DEGREES)	110	120	130	140	150	160	170	180
			107.6	107.	106.1					163.2	9.96	95.9	6.46	96.2	92.3	7.06	86.5	78.5	77.3
250 1	112.4	110.3	105.4	105.4	103.9	103.8	101.0	103.8	98.4	101.0	94.4	93.7	92.2	94.0	90.1	88.5	84.3	76.3	75.0
		166.3	100.8		99.3			99.2		4.96	89.7	89.1	87.6	9.76	85.4	83.9	79.6	71.6	70.3
		103.9	98.3	98.	96.9	96.8		95.8		94.0	87.3	86.7	85.2	87.0	63.0	81.5	77.2	69.0	67.7
		101.3	95.8	95.	94.3			84.2	88.7	91.5	8 4.8	84.1	82.7	84.5	80.5	78.9	7.4.7	4.99	65.0
	100.3	98.7	93.2		91.7			91.5	86.0	88.8	82.1	81.5	80.0	81.9	8.77	76.3	72.0	63.5	62.2
	9.76	6.56	90.3	90.	88.9		85.9	68.7	83.2	86.1	19.3	78.7	77.2	79.1	75.0	73.5	69.5	9.09	59.3
	9.46	95.9	87.3	87.	85.9		85.9	85.7	96.5	83.1	16.4	75.7	74.2	76.1	72.0	20.5	2.99	57.3	56.0
	91.5	83.7	84.1	84.	82.6		19.7	82.5	6.92	80.0	73.1	72.5	71.0	73.0	68.7	67.2	62.8	53.8	55.5
	88.1	80.2	80.7	000	79.1		76.1	79.1	73.4	76.5	2.69	69.1	67.5	69.5	65,1	63.5	59.1	6.64	48.3
	94.4	85.5	76.9	16.9	15.4	75.3	72.3	75.3	69.5	72.8	62.9	65.2	63.6	9.59	61.0	29.4	24.9	45.2	43.7
	90.5	78.3	72.6	72.	71.1		68.1	71.0	65.2	68.6	919	600	29.5	61.2	20.5	24.8	20.4	39.1	37.6
	15.6	73.5	6.29	67.	66.3		63.2	66.3	4.00	63.8	56.5	55.9	54.3	56.3	51.4	1.64	44.5	35.6	31.0
	70.3	68.5	65.5	62.	6.00		9.15	2.09	24.7	58.3	51.0	20.0	48.3	50.5	45.0	43.5	37.6	26.0	23.8
		62.1	56.3	26.	24.6		51.4	24.4	48.2	52.0	44.8	43.7	41.7	44.1	37.2	35.4	27.6	16.0	13.8
8000	57.1	55.0	49.3	49.	47.4		44.4	47.5	£0.	45.3	36.3	35.0	33.1	35.3	59.9	23.3	15.6	5.9	3.8
10000	48.8	46.7	40.3	40.	37.9		34.2	38.1	30.9	35.6	24.4	23.1	20.5	23.5	12.0	9.0	3.7		
12500	37.7	34.8	26.8	25.5	23.1	25.1	18.9	54.9	16.2	20.6	12.6	11.2	8.0	11.7					
	20.2	15.8	13.4	10.	8.3		3.6	11.7	1.5	2.5	. 8								
20000	2.7																		
25000																			

	AS A	FUNCTION	OF	ANGLE A	AND DIS	DISTANCE	FROM S	SOURCE) OMEGA	OMEGA 8.2 TEST 74-004-028	OMEGA 8.2 TEST 74-004-028	
NOISE SO 1-37 ENG. GROU	SE SOURCE/SUBJECT: T-376 ENG. J69-T-25 GROUND RUNUP	JBJECT JRCRAF 25 JP			OPER	OPERATIONS IDLE, 3 SINGLE	37% RPM ENGINE			2000	HETEOROLOGY TEMP BAR PRE REL HUM DELTA N =	LOGY: PRESS = HUMID =	= 59 = 29.92 = 70	2 IN HC		AIRC DOPER PROF	RUN 01 ARCRAFT CODE OPERATION CODE PROFILE VERSION 13 FEB 76 PAGE E1	CODE (CODE (STSION	DE 024) DE 02013) ION A)
JISTANCE (FEET)	3	10	20	36	3,	5.0	0.9	7.0	ANGL	e tul	(DEGREES) 90 100	110	120	130	140	150	160	170	180
250	120.5	118.5	112.8	112.7	110.9	110.8	107.7		104.2	107.9	100.2	10000	98.4	101.2	96.6	35.2	90.7	83.1	82.1
315	116.6			108	106.4	106.3				103.4	95.7	95.5		96.7	92.1	2.06	86.2	78.5	77.6
000	113.7			105	104.0	104.0		103.7		101.1	93.4	93.1		94.4	89.8	4.88	83.9	76.1	75.2
900	108.8	166.7	101.0	103.4	99.0	99.0				96.1	88.4	98.2		89.5	84.8	83.4	79.0	70.9	69.9
8 00	106.2	164.1	98.	98.2	96.4	96.3				93.5	85.7	85.5		86.8	82.1	80.8	76.3	68.1	67.1
1000	103.5	101.3	95.6	95.4	93.6	93.5	90.3	93.3	86.7	7.06	82.9	82.7	81.2	84.1	79.3	78.0	73.4	65.2	64.2
1250	100.5		95.6	σ	9006	90.5	87.3	90.3	83.7	87.8	80.0	8.62	78.2	81.1	76.3	74.9	4.07	61.9	6.09
1600	4.76		89.4	20	87.4	87.3	84.1	87.1	80.5	84.6	7.01	16.5	75.0	6.77	73.0	71.6	67.0	58.3	57.4
2000	0.46	91.7	85.9	•	63.9	83.8	80.0	63.6	6.92	81.2	73.3	73.1	71.4	74.4	4.69	6.19	63.3	24.5	53.2
2500	90.3	87.9	82.1	81.9	80.1	80.0	76.8	79.8	73.1	77.4	69.5	69.5	67.5	70.5	65.3	63.9	59.5	49.8	48.5
4000	80.3	77.9	72.1	71.0	70.1	7.0.7	6.99	0 0	63.3	200	39.6	20.0	57.4	500	54.0	53.3	67.9	36.3	34.9
5000	73.8		65.0	65.5	63.7	63.6	60.3	63.4	56.8	61.1	53.2	52.4	50.7	53.5	47.6	45.9	40.2	28.8	26.8
6330	66.5		58.4	58.3	50.5	56.4	53.2	56.3	49.6	53.9	46.2	45.3	43.2	46.0	39.0	37.2	29.3	17.8	15.8
8000	56.3	56.1	50.3	59.0	48.3	48.5	45.3	4.8.4	41.5	46.2	37.0	35.8	33.9	36.3	27.4	24.2	16.5	6.8	4.8
10000	48.8	46.7	40.3	4	37.9	38.1	34.2	38.1	30.9	35.6	4	23.1	20.5	23.5	12.0	9.0	3.7		
12500	37.7	54.8	26.8	25.2	23.1	25.1	18.9	54.9	16.2	9.07	12.6	11.2	8.0	11.7					
16000	20.2	15.8	13.4	10.3	8.3	12.0	3.6	11.7	1.5	2.5	. 8								
26300	2.7																		
00000																			

	AS A	AS A FUNCTION OF		ANGLE A	AND DIS	DISTANCE	FROM SC	SOURCE								ONEGA TEST	6A 8.2 T 74-00	04-028	
10	SE SOURCE/SUBJECT: 1-378 AIRCRAFT ENG. J69-T-25 GROUND RUNUP	UBJECT I	_		OPERATIONS IDLE, SINGLE		37% RPM ENGINE			20000	METEOROLOGY I TEMP BAR PRES REL HUMI	PRESS HUMID	= 59 =29.92 = 70	9 F 2 IN HG	12	AIRCRAI OPERAT PROFIL 13 FEB	747.0	T CODE O ON CODE O VERSION 76	DE 024)
DISTANCE (FEET)	9	16	20	30	9,	2.0	09	7.0	ANGL 80		(DEGREES)	110	120	130	140	150	160	170	180
200	104.0	-	95.8		94.3	93.6	4.06	93.5	87.1	6.06	83.3	82.6	7.08	83.0	78.4	76.7	72.4	65.1	63.8
250	101.8		93.6	93.8	92.1	91.5	88.2	91.3	84.9	88.	81.1	80.5	78.5	80.8	76.2	74.5	70.3	65.9	61.6
400	97.4		89.1		87.6	99.6	83.6	85.8	80.4	84.3	76.7	76.0	74.1	76.3	71.8	70.1	65.8	58.5	57.
200	95.0		46.7	-	85.3	94.0	81.3	84.5	78.0	82.0	74.3	73.7	711.7	74.0	69.5	67.8	63.5	56.2	54.6
630	95.6		84.3	84.5	85.8	82.1	78.8	82.0	75.5	19.5	71.9	71.3	4.69	71.6	67.0	4.59	61.1	53.7	52.
900	90.1		81.7		40.3	9.62	76.3	19.5	72.9	27.0	4.69	68.8	6 • 99	69.1	64.5	65.9	58.6	51.5	*64
1000	87.5	85.2	79.1		77.6	6.97	73.6	76.8	70.3	74.47	9.99	66.1	64.2	66.5	61.8	60.2	56.0	48.6	47.
1250	84.7	82.3	76.2	76.5	74.8	74.1	8.97	74.0	4.19	71.6	0 . 49	63.3	61.5	63.7	59.0	57.4	53.2	45.8	44.5
1600	81.7		73.2		71.8	71.1	2.19	20.9	4 . 49	9.89	61.1	60.4	58.6	2.09	56.0	24.4	50.3	45.8	41.
2000	78.4		6 .69		69.5	67.8	64.5	1.19	61.2	65.3	57.9	57.1	55.4	51.5	52.8	51.5	47.1	39.5	38.
2500	74.8		66.3		6.49	2.49	6000	64.1	57.7	61.7	24.4	53.6	52.0	24.0	7.64	47.6	43.5	35.9	34.
3150	70.0		62.3	5	600	60.2	57.0	60.1	53.9	57.8	20.6	49.8	48.3	50.1	45.3	43.7	39.7	31.9	30.6
4000	66.3		8.76		56.3	55.7	55.5	29.5	1.64	53.4	40.4	45.5	7.44	45.7	40.8	39.3	35.3	27.5	26.4
2000	61.1		25.1		51.5	200	47.0	20.0	45.0	48.4	41.6	40.7	39.6	40.8	35.9	34.4	30.5	55.5	21.
6540	25.5	25.8	000		42.4	**	0.24	T	53.8	1.24	30.4	55.5	24.0	35.4	30.4	29.0	129.1	10.8	15.
9779	7.84		7.04		38.6	38.5	35.8	38.6	3404	36.4	30.9	29.1	59.5	58.5	54.6	23.4	19.9	10.7	9.
16000	40.1		32.7		30.9	31.5	29.3	31.7	28.8	29.8	25.2	23.8	24.5	23.8	18.9	17.7	14.7	4.3	3.8
12500	30.8		24.7	23.8	22.6	24.3	22.6	24.7	23.0	23.1	19.5	18.0	18.8	18.2	13.6	12.5	9.7		
16000	20.7		17.1		14.2	17.5	16.2	18.0	17.1	16.8	13.7	12.2	13.2	12.8	8.7	7.7	5.0		
20000	11.5		10.2	7.6	9.9	11.1	9.8	11.4	10.9	10.5	7.6	6.3	7.3	1:4	4.2	3.5			
25000	2 6																		

	4	FUNCTION OF			E AND DISTANCE		FROM S	SOURCE								OMEGA	OMEGA 8.2 TEST 74-004-0	GA 8.2 T 74-004-028	
1 2	JURCE/SI	UBJECTS AIRCRAF -25 UP	_+		OPER	OPERATION: IDLE, 3 SINGLE	37% RPH ENGINE			2000	METEOROLOGY: TEMP BAR PRES REL HUMI	PAESS HUMID	= 59 = 29.92 = 70	9 F 2 IN HG		PROFE	AIRCRAFT AIRCRAFT OPERATION PROFILE VE 13 FEB 76	200 881	DE 024)
DISTANCE (FEET)	9	101	20	30	9	50	9	7.0	ANGLE 80		(DEGREES) 90 100	110	120	130	140	150	160	170	180
200	109.9	107.2	101.0	131.0	99.0		94.9	98.1	7.06	95.6	86.9	86.7	84.6	87.9	82.7	81.2	76.7	1.69	68.7
550	107.7		98.8		96.9	96.2	95.6	6.56	88.5	93.4	84.8	84.5	82.5	85.8	90.0	79.0	74.5	67.5	66.5
315	105.5		96.6	96	94.6		4.06	93.6	86.2	91.2	85.6	82.3	80.3	83.6	18.4	16.8	72.3	65.3	64.3
00%	103.3	7	94.3	94.	95.4		88.1	91.4	83.9	89.0	80.3	80.0	78.0	81.3	76.1	74.6	70.1	63.1	62.1
200	100.9	98.5	91.9	926	90.0		85.7	0.68	81.5	86.6	78.0	77.7	75.7	79.0	73.8	72.2	67.8	60.7	59.1
800	96.0		86.9	87.	85.0		80.7	84.0	76.5	81.7	73.1	72.8	70.8	74.1	68.8	67.3	62.9	55.8	54.6
1300	93.4		84.3	94.	82.4	81.7	78.1	81.4	73.8	79.1	10.4	70.1	68.2	71.4	66.2	64.7	60.3	53.1	52.5
1250	999		81.4	81.	19.5	78.8	75.2	78.5	71.0	76.2	67.7	4.19	65.4	68.7	63.4	61.9	57.5	50.3	49.4
1600	87.6		78.4	78.	76.5	75.8	72.2	15.5	68.0	73.2	2.49	4.49	65.5	2.59	4.09	58.9	54.5	47.3	46.4
2000	84.3		75.1	75.1	73.2	72.5	68.89	72.2	2.49	20.0	61.5	61.2	29.4	65.5	57.1	55.7	51.3	44.1	43.2
2500	80.7		71.5	71.	9.69	68.9	4.69	68.6	61.2	4.99	58.0	57.7	96.0	58.9	53.5	52.1	47.8	40.5	39.6
3150	16.7		67.5	67.	65.6	65.0	61.4	2.49	57.4	05.5	24.5	53.8	55.2	55.0	9.64	48.2	43.9	36.5	35.7
0004	71.6		62.0	62.	00.1	59.5	56.1	59.3	55.5	57.1	49.3	48.7	47.3	1.64	44.3	45.9	38.7	31.2	30.3
2000	2.49		55.8	55.	54.1	53.5	50.3	53.4	47.1	51.2	43.8	43.1	45.0	43.8	38.5	37.1	33.0	25.2	24.
6300	51.5		49.9	48.	47.2	46.8	43.8	46.8	41.2	44.5	37.8	36.9	36.2	37.3	32.1	30.7	26.8	18.6	17.7
8000	4.64	47.0	41.2		39.6	39.4	36.7	39.5	35.1	37.4	31.6	30.5	30.3	30.6	52.5	24.2		11.6	10.6
10000	40.1		32.7	32.	30.9		29.3	31.7	28.8	29.8	25.2	23.8	24.2	23.8	18.9	17.7	14.7	4.3	3.8
12500	30.8		24.7	23.	22.6		22.6	24.7	23.0	23.1	19.5	18.0	18.8	18.2	13.6	12.5	4.6		
16000	20.7		17.1		14.2	17.5	16.2	18.0	17.1	16.8	13.7	12.2	13.2	12.8	8.7	7.7	5.0		
20030	11.5	11.6	10.2	7.	9.9		9.8	11.4	10.9	10.5	7.6	6.3	7.3	7.4	4.2	3.2	m.		
25000	3.6		3.3	•		4.5	3.3	6.4	‡· ‡	4.0	1.3	4.	1.3	2.0					

	DISTANCE = 250	FEET) TEST 74-004-028
NOISE SOUR ENG. J GROUND	RCE/SUBJECT: AIRCRAFT J69-T-25 D RUNUP	OPER	ATION: 1DLE, 37% RPH SINGLE ENGINE) METE))))))))	METEOROLOGY: TEMP BAR PRESS = 29.92 IN HG REL HUMID = 70 % DELTA N = -3.0 DB	A PROFILE
		P=PNLT		A=AL	TEALT	
						Q.
101						a -
20				••	•	
30					A	
94	•••		••	•	. A .	•
A 50				••		•••
9 9				•	A T	d
L 70	•••				. A.	
9 1 2			• •	•	. T A T .	
96				•		
E 100				•	F	
R 110		• •				
E 120					. A. T P .	
130	•••	•			T A.	•••
140	•••	••	••		ه 	• •
150				A.	т.	• • • • • • • • • • • • • • • • • • • •
160		•		۰.4	••	
170			۹	••	•••	0.000 0.000
180			A			
		•		•		

		1/3 OCTAVE DISTANCE =	BAND 250	FEE	_												OMEGA TEST 7	00	4-028	
NOISE SUU T-378 ENG. JG GROUND		RCE/SUBJECT & AIRCRAFT 9-T-25 RUNUP	=_		SIE	RATION RIM CH	CHECK, E ENGIN	92% E	A T		ž 9	TEOROLC TEMP BAR PRE REL HUN	SS = 3	29.92 70	A H H H	1	AIRCRAFT OPERATION PROFILE V 13 FEB 76	_ w	CODE	0204 02007 A
	CENTER									1 111	COESRE	EES)							: .	
FREG	(HZ)	-	2	20	30	3	20	9	20	90	96	100	110	120	130	140	150	160	170	>180
20		69	9	63	69	+9	99	29	29	68	69		69	72	14	11	7.8	92	69	64
		68	65	99	29	29	29	69	2.0	7.1	20		73	92	19	80	81	92	89	48
96			65	99	29	6.8	7.0	20	7.0	72	71		14	78	81	82	83	11	49	4 4
100			29	99	69	7.0	11	72	73	22	74		92	80	83	87	96	92	69	42
125		63	69	69	69	69	71	73	73	16	92		92	82	85	88	98	92	99	46
160		69	17	17	7.7	12	25	15	20	11	11		80	85	87	91	88	92	65	42
200		21	12	72	72	72	52	20	11	18	62		81	9 7	87	91	68	77	99	9 !
152			9;	92	3,	*	0 0	81	80	63	3 0		28	98	80 .	*	92	18	29	14
315		0:	0;	2	9	*	6 2	200	7 0	200	0 0		9 0	80	7 10	2 6	60	:	90	4.
		12	200	0 1	0 :	2 2	100	70	10	0 0	0 4		9 6	000	0 0	0 0	0 0	00	0 4	9 4
630		22	2 2	75	12	2 2	9 6	108	2 6	2 6	8 6		85	9 6	200	8 0	2 5	3.5	200	12
800		15	12	22	17	74	22	29	81	91	9 7	84	8 4	85	83	9 4	5	89	29	36
1006		15	14	16	14	92	11	80	82	82	94		86	98	94	9.4	80	68	28	38
1250		52	15	15	92	92	11	81	83	82	85		98	96	94	48	62	99	25	37
1600	_	73	72	73	14	14	73	7.8	8.0	19	81		94	48	82	81	77	49	24	34
2000		15	72	72	73	14	73	11	7.8	62	62		85	9.4	83	80	92	63	24	34
2500		14	7.0	7.1	72	73	72	92	92	7.8	7.8		83	82	81	7.8	1.4	61	25	32
3150	-	25	20	20	20	73	73	25	92	78	79		82	81	19	92	72	9	20	30
4000	_	92	69	99	20	14	14	15	15	11	80		7.8	7.8	16	72	20	25	48	28
5036		87	90	30	85	89	85	98	68	85	86		80	92	74	73	69	58	64	53
6300		11	20	73	92	29	1.4	77	7.8	92	11		16	72	20	29	49	24	45	52
9008		20	68	20	7.1	11	69	73	73	73	15		73	7.0	29	65	62	51	45	22
10001		47	11	26	72	52	73	14	74	42	92		72	68	63	9	28	48	6	20
OVERALL	ורר	90	87	88	68	91	91	63	*6	76	96	95	95	96	26	100	96	87	11	57

NOISE		FUNCTION	9	ANGLE !	AND DIS	DISTANCE	FROM S	SOURCE) OMEGA	OMEGA 8.2 TEST 74-004-0	74-004-028	
	SE SOURCE/SUBJECT: T-37B AIRCRAFT ENG. J69-T-25 GROUND RUNUP	SUBJECT AIRCRAI 1-25 VUP			COPERA	OPERATION: TRIM CHECK, 92% SINGLE ENGINE	ENGINE	32% RPH			METEOROLOGY: TEMP BAR PRES REL HUMI	PPRESS HUMID	=29.	59 F 92 IN H 70 %	Ş	AIRCRAFION DE PROPERTION DE PROFILE DE PROFI	24 04	CODE CODE RSION	024 02007
DISTANCE	dCE 0	3	20	30	0,	50	09	0.2	ANGLE 80	•	(OEGREES) 90 100	110	120	130	140	150	160	170	>180
200				105.		107.0	108.8	110.3	109.1		109.5	109.3		-	m	106.5	4.46	84.2	63.
256		5 100.3	101.1	103.3	0.90	104.6	106.4	107.9	106.8	07.9	107.3	107.0	106.7	106.1	107.2	104.4	92.3	82.0	8.09
4.00	100.4			9 6	00	9.66	101.4	102.9	101.8		102.6	102.4			o	10001	87.8	77.5	55
500				95.	0	6.96	98.7	100.2	99.1	00.3	100.2	6.66		~	n	97.7	85.3	75.1	53.
630			90.	95.	9	0.46	95.8	97.3	96.3		97.7	4.76			0	85.2	85.9	72.7	20.
900	91.	9 99 9	87.4	9.68	•	6.06	92.7	84.5	93.2		95.0	1.46		_	2	95.5	80.3	70.1	47.
1000	88.	0 83.2	84.1		8 8	87.5	4.68	8.06	6.68	91.2	92.2	91.9	91.6	91.3	92.5	89.7	7.77	67.4	44.
1250						83.8	85.7	87.1	86.4	87.6	89.1	68.9	88.6	88.3	4.68	86.7	4.9	9.49	40.2
1630	1 80.1				000	79.8	81.0	83.1	82.5	84.1	85.9	85.7	85.4	85.1	86.0	83.8	72.0	61.6	36.
2000					75.	75.8	17.6	78.8	19.0	80.9	85.5	82.2	82.0	81.7	85.8	80.7	68.9	58.3	31.
2500			69		70.	71.9	73.8	14.5	15.4	77.4	78.7	78.4	78.2	78.0	2.62	16.8	6.49	53.9	23.
3150					.40	67.1	2.69	20.5	71.5	73.7	14.5	74.2	74.1	74.0	15.4	72.5	60.3	10.64	15.
0004			900		09	63.2	65.1	65.1	67.1	4.69	20.0	69.5	69.5	9.69	71.1	67.5	55.1	43.5	9
2000		6 24.9				58.5	60.2	61.2	62.2	0.49	200	04.2	6.4.0	0.40	66.3	2.29	40.64	37.6	
8030	***		45.	43.5	43.3	48.3	50.4	51.2	52.5	55.1	54.8	54.5	55.2	55.3	57.1	52.7	38.6	23.9	
																70.1			
10000					37.	43.2	45.3	40.0	4.2.4	50.5	9.64	49.0	6.64	50.6	55.6	47.9	33.0	15.9	
12500				31	29.	37.6	39.7	40.4	41.6	44.6	43.4	45.3	43.8	45.1	47.1	45.8	25.8	8.0	
16000	22.8	8 23.7		21	20.2	31.1	33.2	33.9	35.1	38.5	36.1	34.7	36.8	38.7	40.9	36.9	16.4		
20000			7	80	10.	21.8	25.1	25.2	27.0	31.3	28.6	55.6	28.8	31.5	34.3	30.3	7.0		
25000					1.6	8.9	15.4	11.6	16.3	20.7	16.3	13.2	17.2	50.6	24.2	50.4			

NOISE SOUP	2	2011000	N OF	ANGLE A	AND DIS	DISTANCE	FROM S	SOURCE) TEST	1 74-00	74-004-028	
NOON O	169-T-0	SE SOURCE/SUBJECT: T-37B AIRCRAFT ENG. J69-T-25 GROUND RUNUP	_=		O PER	OPERATION* TAIM CHECK, 92% SINGLE ENGINE	ENGINE	32% RPH			METEDROLOGY TEMP BAR PRE REL HUM DELTA N =	PRESS =2 HUMID =	= 59 = 29.92 = 70	LHX	9	PROPERTY DATE	RUN 02 AIRCRATIO CODE PROFILE VERSION 13 FEB 76 PAGE E2	CODE	DE 024)
DISTANCE (FEET)	0	10	20	30	3	90	0.9	7.0	ANGL 80	1 141	(DEGREES) 90 100	110	120	130	140	150	160	170	1180
	1111.4	105.9	196.7	10	112.4		112.2			112.6	111.0	110.4				106.5	4.46	84.2	63.1
	109.6			-	110.0		109.8			110.3	108.	108.1				104.4	92.3	82.0	60.8
515	103.9	16101	99.3	102.3	104.9	103.2	107.4	109.6	104.8	105.3	106.	103.5	105.0	104.4	103.3	102.3	90.06	77.5	58.3
	101.1		96.6	m	102.1		102.1			102.6		101.0				97.7	65.3	75.1	53.0
	98.2	95.9	93.7	+	99.1		99.5			99.8	99.	98.5				95.2	82.9	72.7	50.5
900	95.6	89.9	9006	N	6.56		96.1			96.8		8.56				95.5	80.3	70.1	47.2
1000	91.5	86.5	87.3	89.8	92.4		92.8	95.0	92.9	93.5	93.6	93.0	92.2	91.8	93.0	1.68	77.7	67.4	44.0
1250	87.7	82.9	83.6	86.0	88.5	87.4	89.1	91.3	89.3	96.0	9006	90.0	89.2	88.8	89.9	86.7	74.9	9.49	40.2
1604	83.6	78.9	79.7	81.9	84.3		85.2	87.3	85.5	86.5	4.29	86.8	86.1	85.6	86.5	83.8	72.0	61.6	36.3
2000	19.0	75.1	76.0	77.4	19.6		81.0	82.9	92.0	83.3	84.0	83.3	82.7	82.2	83.3	80.7	68.9	58.3	31.6
2500	73.9		72.2	72.5	74.4		77.2	78.7	78.3	19.8	80.2	19.5	6.82	78.5	79.7	76.8	6.49	53.9	23.9
3150	69.3		68.1	68.2	68.9		73.1	14.6	74.4	76.1	76.0	75.3	74.7	74.5	75.9	72.5	60.3	49.0	15.4
4000	63.5		65.9	62.0	63.2		67.8	4.69	69.5	71.3	71.2	70.4	20.0	70.1	71.5	67.5	55.1	43.5	9.9
5330	27.7		57.3	96	57.4		62.3	63.7	0 * 4 9	66.0	66.0	65.2	65.3	65.1	9.99	62.2	40.64	37.6	
6310	51.1		51.1	50.	53.6		56.2	9.75	58.1	9.09	4.09	59.8	60.2	6.65	61.5	6.95	43.3	30.3	
8000	45.1	45.1	1.5.7	* * *	44.1	0.64	51.1	52.0	53.1	99.99	55.1	54.8	55.3	55.4	57.5	52.7	38.6	23.9	
10000	38.6	38.7	39.6	37.7	37.0		45.3	46.0	45.4	50.5		49.0	6.64	9.09	52.6	47.9	33.0	15.9	
12530	32.1		33.7	31.0	29.5		39.7	40.4	41.6	44.6	43.	42.3	43.8	45.1	47.1	42.8	25.8	8.0	
16000	22.8		26.5	21.3	2002		33.2	33.9	35.1	38.5	36.	34.7	36.8	38.7	6.04	36.9	16.4		
20030	12.9		16.1	8.0	10.9	21.8	25.1	25.2	27.6	31.3	28.6	25.6	28.8	31.5	34.3	30.3	7.0		
25000	2.9		5.7		4			,,,	10	1									

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

UND RUNUP 10		AS A F	A FUNCTION OF	N OF	ANGLE A	9	DISTANCE	FROM S	SOURCE								TEST	74-004-028	14-028	
200 92.5 87.7 88.5 90.3 93.1 31.6 93.7 95.2 94.5 95.2 97.0 96.6 96.3 95.4 96.4 93.0 81.2 71.4 53.8 96.1 96.7 89.3 91.7 93.7 95.2 94.5 95.2 97.0 96.6 96.3 95.4 94.1 93.0 91.1 92.2 86.9 94.1 93.0 91.1 92.2 86.9 94.1 93.2 94.1 93.1 93.1 93.1 93.1 93.1 93.1 93.1 93	NOISE SOU	URCE/SU B J69-T- ND RUNU	IBCEAF			OPER	TAIN CH	ENGINE	•		2000	ETEOROI TEMI BAR REL ELTA N	PRESS HUMID	= 29.9; = 7.= 0.08	L Z X	g	PROF	CRAFT RATION FILE VE	CODE	02007 02007
92.5 87.7 88.5 90.3 93.1 91.6 93.7 95.2 94.6 94.0 94.6 96.3 95.4 96.4 95.4 95.4 95.4 95.4 95.4 95.4 95.4 95	DISTANCE		3	20	30	3	35	00	7.0	ANGL		REES)	110	120	130	140	150	160	:	180
91.1 85.4 86.3 87.4 91.7 89.3 91.4 92.9 92.2 94.0 94.8 94.4 94.1 93.3 94.3 91.0 79.1 69.2 92.0 93.1 85.8 95.1 87.9 65.2 92.0 93.1 92.2 96.9 97.1 92.2 86.9 77.0 67.2 95.0 93.1 86.9 74.9 96.2 92.0 93.1 92.2 96.9 77.9 67.2 95.0 93.1 86.9 74.9 96.2 92.0 93.1 92.2 96.9 97.9 95.1 92.2 92.0 93.1 86.9 74.9 96.2 92.0 93.1 86.9 74.9 96.2 92.0 93.1 86.9 74.9 96.2 92.0 93.1 86.9 74.9 96.3 92.0 93.1 86.9 74.9 96.3 77.9 77.9 77.9 77.9 77.9 77.9 77.9 77	200	92.5	1.18	88.5		93.1	91.6	93.7	95.2	94.5	96.2	97.0	96.6	96.3	95.4	4.96	93.0	81.2	71.4	51.4
d7.6 d3.1 d3.9 d5.5 d8.2 d8.2 g2.2 g2.0 g1.1 g2.2 g8.9 g7.0 g7.0 <th< td=""><td>250</td><td>90.1</td><td>85.4</td><td>86.3</td><td></td><td>2.06</td><td>89.3</td><td>91.4</td><td>95.9</td><td>92.2</td><td>0.46</td><td>94.6</td><td>34.4</td><td>94.1</td><td>93.3</td><td>94.3</td><td>91.0</td><td>79.1</td><td>69.3</td><td>19.3</td></th<>	250	90.1	85.4	86.3		2.06	89.3	91.4	95.9	92.2	0.46	94.6	34.4	94.1	93.3	94.3	91.0	79.1	69.3	19.3
85.0 80.7 81.5 83.0 85.6 84.5 86.7 80.1 87.6 89.4 90.4 90.0 89.8 86.9 90.1 86.8 72.8 65.1 87.9 65.1 87.9 85.1 87.5 87.8 87.1 80.1 87.5 87.9 87.5 87.9 87.5 87.5 87.5 87.5 87.8 87.1 80.1 87.5 87.9 87.5 87.5 87.5 87.5 87.5 87.5 87.5 87.5	315	97.6	83.1	83.9	85.5	88.2	86.9	89.1	9006	90.0	91.7	95.6	95.2	95.0	91.1	95.2	68.9	77.0	67.2	47.
76.5 75.6 77.1 64.1 64.2 82.0 84.2 82.3 87.1 88.1 87.7 87.5 86.7 85.3 85.7 87.5 86.7 87.5 86.7 77.8 82.0 84.2 82.3 70.5 64.7 87.6 77.6 77.9 82.0 82.3 82.3 82.9 82.8 82.0 87.5 87.5 66.7 76.6 77.5 77.6 77.7 79.8 81.8 81.4 81.4 77.6 77.5 65.9 82.8 82.0 87.8 82.0 87.5 85.8 77.5 66.9 82.8 77.6 77.5 65.9 82.8 77.8 77.2 77.8 77.2 77.8 77.2 77.8 77.8	000	85.0	80.7	81.5	83.0	85.6	84.5	1.98	88.1	97.6	4.68	7.06	90.0	89.8	6.89	90.1	86.8	4.9	65.1	45.1
76.5 73.2 74.1 74.8 76.8 76.7 79.1 84.4 64.3 82.3 83.3 82.9 82.8 82.0 83.3 81.0 68.2 58.5 73.2 74.1 74.8 76.6 76.7 79.1 84.4 64.3 82.3 83.3 82.9 82.8 82.0 83.3 81.0 68.2 58.5 73.5 73.5 73.7 73.7 77.8 81.8 81.8 81.4 77.1 79.8 81.8 81.4 77.1 79.8 81.8 81.4 77.1 79.5 65.9 55.1 77.2 77.8 77.1 77.1 72.9 65.9 65.0 65.9 65.0 65.8 66.0 65.8 66.8 68.4 70.9 72.4 77.2 72.2 72.4 77.1 72.9 65.1 56.1 56.1 56.2 65.2 65.1 65.2 65.1 65.2 65.2 65.1 65.2 65.2 65.2 65.2 65.2 65.2 65.2 65.2	200	79.5	75.8	76.6	83.5	82.8	82.0	81.7	83.6	82.5	87.1	48.1	87.7	87.5	86.7	85.9	84.6		63.0	43.
73.4 71.0 71.4 71.9 73.6 74.0 76.4 77.6 77.7 79.8 810.8 810.4 810.4 79.6 810.9 77.5 65.9 56.1 71.2 71.2 71.2 71.2 71.2 71.2 77.2 77	9 . 0	76.5	73.2	74.1	4:0	76.8	7.97	79.1	9.00	80.3	82.3	83.3		85.8	82.0	83.3	80.0		58.5	38.5
70.2 67.9 68.8 66.9 70.2 71.2 73.7 74.8 75.1 77.2 78.2 77.8 77.1 78.3 74.9 63.3 53.6 66.9 66.9 66.8 66.8 66.4 70.9 71.9 72.4 72.4 72.5 72.4 77.1 78.3 74.9 63.3 53.6 66.9 65.9 66.0 65.8 66.0 65.8 66.0 66.0 65.0 65.0 65.0 65.0 65.0 65.0	1904	73.4	70.0	71.4	71.9	73.6	74.0	76.4		77.77	79.8	80.8	An. 4	40.4	79.6		77.5	66.0	56.1	36.1
66.9 65.2 66.0 65.8 66.8 68.4 70.9 71.9 72.4 72.6 75.5 75.0 75.2 72.4 75.6 72.2 66.0 69.0 69.0 69.0 69.0 69.0 72.7 72.2 72.4 71.7 72.9 69.4 58.0 48.4 63.2 62.7 63.3 65.6 68.0 69.0 69.0 69.1 69.6 69.1 69.4 68.7 69.4 69.2 62.5 65.6 68.0 69.1 68.7 69.4 69.2 62.2 62.7 72.2 72.4 71.7 72.9 69.4 58.0 48.4 65.3 65.0 60.2 65.5 53.3 52.2 56.4 59.3 61.0 61.0 65.0 65.0 65.3 65.9 66.2 65.5 65.6 62.6 51.4 41.9 53.0 52.5 53.3 52.5 52.7 55.4 58.0 55.2 56.7 62.2 62.7 62.2 62.7 61.9 62.9 58.7 47.5 38.1 44.4 44.1 44.1 44.1 45.5 46.7 53.9 54.3 53.9 54.4 53.4 54.5 54.8 54.8 54.8 54.8 54.8 54.8 54	1250	70.2	67.9	68.8	699	70.2	71.2	73.7		75.1	77.2	78.2	77.8	77.8	77.1	m	24.9	63.3	53.6	33.6
63.6 62.4 63.2 62.7 63.3 65.6 68.0 69.0 71.9 72.7 72.2 72.4 71.7 72.9 69.4 56.0 40.4 60.2 59.5 69.5 69.0 69.0 69.6 68.9 69.6 69.1 69.4 68.7 69.9 66.1 54.8 45.3 56.7 56.1 56.2 56.2 56.2 65.2 65.2 65.3 66.2 65.6 62.6 62.6 52.8 62.8 62.2 62.7 62.2 62.7 62.2 62.7 62.9 66.2 62.9 58.7 47.5 38.1 41.9 53.0 58.0 40.1 40.9 59.2 58.7 58.2 58.7 58.2 58.7 58.2 58.7 58.2 58.7 58.2 58.7 58.8 58.8 58.8 58.0 40.1 40.9 40.0 40.0 43.1 45.5 40.7 57.3 59.0 50.0 49.4 50.1 49.4 50.1 49.4 50.1 49.9 38.8 12.9 54.1 47.3 49.9 50.0 49.4 50.1 49.4 50.1 49.4 50.0 54.8 57.8 58.8 12.9 58.1 57.8 58.8 12.9 58.0 54.8 57.8 58.8 14.1 42.9 40.7 47.3 49.9 50.0 49.4 50.1 49.4 60.3 42.0 31.1 21.8 31.0 31.8 31.8 31.8 31.8 31.8 31.8 31.8 31.8	1600	6.99	65.2	66.0	65.8	66.8	68.4	6.02		72.4	74.6	75.5	75.0	75.2	74.4	9	72.2	60.7	51.1	31.1
60.2 59.4 60.2 59.5 59.9 62.5 65.0 66.0 66.6 68.9 69.6 69.1 69.4 68.7 69.9 66.1 54.8 45.3 56.7 56.1 56.9 56.2 56.6 62.6 51.4 41.9 55.1 56.9 56.2 56.4 56.2 62.7 61.9 66.2 62.7 61.9 62.9 58.7 47.5 38.1 41.9 53.0 52.5 53.3 52.5 52.7 52.4 59.8 62.2 62.7 62.2 62.7 62.2 62.7 61.9 62.9 58.7 47.5 38.1 41.9 44.4 44.1 44.9 44.0 44.3 47.0 19.6 55.2 55.7 58.2 58.7 53.2 58.7 57.8 54.8 54.8 43.3 33.9 44.4 44.1 44.9 44.0 44.3 47.0 49.6 51.8 51.4 53.9 54.3 53.9 54.4 53.4 54.5 49.9 38.8 29.5 40.3 40.1 40.9 39.8 40.0 43.1 45.5 46.7 47.3 49.9 50.0 49.4 50.1 49.4 50.6 46.1 35.1 25.8 35.7 35.7 35.3 35.3 35.3 36.3 41.1 42.1 42.9 45.5 45.2 44.6 44.6 45.5 45.1 49.4 60.2 41.7 37.7 26.8 17.5 25.7 25.9 26.0 24.5 23.3 37.2 38.1 40.7 40.0 39.3 40.4 40.2 41.7 37.7 26.8 17.5 25.7 25.9 26.0 24.5 23.4 23.4 23.4 23.4 23.4 25.7 29.5 31.4 28.1 17.1 7.7 7.1 13.8 14.0 14.8 12.9 11.8 17.8 19.2 19.5 20.9 23.4 21.6 20.5 23.4 23.5 23.4 25.7 29.5 23.4 22.7 29.5 23.4 22.7 23.5 23.4 25.7 29.5 23.4 22.7 23.5 23.4 22.7 23.5 23.4 22.7 23.5 23.4 25.7 29.5 23.4 22.7 20.5 23.4 22.7 23.5 23.5 22.7 23.5 23.5 22.7 23.5 23.5 22.7 23.5 23.5 23.5 22.9 11.7 7.7 2.2	2000	63.6	62.4	63.2	62.7	63.3	65.6	68.0		9.69	71.9	72.7	72.2	72.4	71.7	6	4.69	58.0	48.4	28.4
56.7 56.1 56.9 56.2 56.4 59.1 61.7 62.7 63.4 65.8 66.3 65.8 66.2 65.5 66.6 62.6 51.4 41.9 53.6 52.5 53.3 52.5 52.7 55.4 58.0 59.2 59.8 62.2 62.7 02.2 62.7 01.9 62.9 58.7 47.5 38.1 44.4 44.1 44.3 44.9 44.0 44.3 47.0 59.6 50.8 51.4 53.9 54.3 57.4 57.8 54.5 54.5 54.8 54.8 62.5 44.4 44.1 44.3 44.9 44.0 44.3 47.0 49.6 50.8 51.4 53.9 54.3 53.9 54.4 53.4 54.5 49.9 38.8 29.5 40.3 40.1 40.9 39.8 40.0 43.1 45.5 46.7 47.3 49.9 50.0 49.4 50.1 49.4 50.6 46.1 35.1 25.8 35.8 35.7 30.5 35.3 35.3 38.8 41.1 42.1 42.9 45.5 45.2 44.6 45.5 45.1 49.4 60.2 41.7 37.7 26.8 17.5 35.8 35.7 29.5 20.0 25.0 24.5 29.2 31.0 31.8 32.9 35.7 29.5 34.4 33.6 35.1 36.7 33.1 22.1 12.8 20.0 20.2 21.0 13.2 14.4 23.8 25.4 25.9 27.2 29.7 28.2 27.2 23.4 21.6 22.2 23.4 25.7 22.9 11.7 2.2 13.8 14.0 14.8 12.9 11.8 17.8 17.2 19.5 20.9 23.4 21.6 20.6 22.2 23.4 25.7 22.9 11.7 2.2	2500	63.5	23.4	60.5	58.5	6.65	65.5	65.4		9 • 99	689	9.69	69.1	4.69	68.7	6	66.1	54.8	45.3	25.3
53.6 52.5 52.6 55.4 58.0 59.2 62.2 62.7 62.2 62.7 61.9 62.9 58.7 47.5 58.6 58.6 58.7 58.6	3150	299	50.1	56.9	50.5	56.4	59.1	61.7		63.4	65.8	66.3	65.8	2.99	65.5	9	9.29	51.4	41.9	21.9
48.8 46.5 49.3 48.4 48.7 51.3 54.0 55.2 55.7 58.2 58.7 58.2 58.8 58.8 54.6 54.4 43.3 33.9 44.4 48.8 44.5 49.3 48.4 48.7 51.3 54.0 57.8 58.8 54.4 43.3 33.9 44.4 44.1 44.9 44.0 44.0 44.0 44.0 44.0 44.0 44.0	4000	53.0	55.5	53.3	55.5	52.7	55.4	58.0		8 .65	62.2	62.7	05.5	62.7	61.9	6	28.7	47.5	38.1	18.
4444 4441 4449 4440 4444 4470 4946 5018 5144 5349 5443 5349 5444 5344 5445 4949 3848 2945 4043 4041 4049 3948 400 0 4341 4545 4647 473 4949 50.0 4944 50.1 4944 50.6 4641 3541 2548 3548 3547 3545 3543 3543 4141 4241 4249 4545 4546 4545 4540 4643 4247 3747 2648 3140 3140 3148 3043 3041 3442 3543 3742 3841 4077 4040 3943 4044 4042 4147 3777 2648 1745 2547 2549 2540 2540 2540 2540 3140 3148 3249 3555 3444 3346 3448 3541 3547 3541 1248 2540 2540 2540 2540 2540 2540 2540 2570 2947 2842 277 2945 3144 2841 1741 777 1348 1440 1448 1249 1148 1748 1942 1945 2449 2344 2146 2046 2242 2344 2557 2249 1147 248	2000	48.8	49.5	49.3	48.4	48.7	51.3	24.0		22.1	58.5	58.7	58.5	28.7	57.8		24.4	43.3	33.9	13.
35.8 35.7 30.5 35.3 35.3 38.8 41.1 42.1 42.9 45.5 45.2 44.6 45.5 45.0 46.3 42.0 31.1 21.8 31.0 31.8 31.8 31.8 31.8 31.8 31.8 31.8 31.8	63.00	***		*	**	44.	0.74	0 1		51.4	53.9	54.3	53.9	24.4	53.4	2	6.64	38.8	29.5	6
35.8 35.7 30.5 35.3 35.3 38.8 41.1 42.1 42.9 45.5 45.2 44.6 45.5 45.0 46.3 42.0 31.1 21.8 31.0 31.0 31.0 31.0 31.0 31.0 31.8 30.1 34.2 36.3 37.2 38.1 40.7 40.0 39.3 40.4 40.2 41.7 37.7 26.8 17.5 25.7 25.9 26.6 25.0 24.5 29.2 31.0 31.8 32.9 35.5 34.4 33.6 34.8 35.1 36.7 33.1 22.1 12.8 20.0 20.2 21.0 19.2 14.4 23.8 25.4 25.9 27.2 29.7 28.2 27.3 28.7 29.5 31.4 28.1 17.1 7.7 13.8 14.0 14.8 12.9 11.8 17.8 19.2 19.5 20.9 23.4 21.6 20.6 22.2 23.4 25.7 22.9 11.7 2.2	9	200	1.01	40.3	29.0	•	1.04	42.0		?	49.9	20.0	* · 6 *	2001	*	0	100	35.1	69.67	
31.0 31.0 31.8 30.3 30.1 34.2 36.3 37.2 38.1 40.7 40.0 39.3 40.4 40.2 41.7 37.7 26.8 17.5 25.8 25.7 25.9 25.7 25.9 26.0 25.7 25.9 26.0 25.0 24.5 27.0 31.0 31.0 31.0 32.9 35.5 34.4 33.6 34.8 35.1 36.7 33.1 22.1 12.8 20.0 20.2 21.0 19.2 16.4 23.8 25.4 25.9 27.2 29.7 28.2 27.3 28.7 29.5 31.4 28.1 17.1 7.7 13.8 14.0 14.8 12.9 11.8 17.8 19.2 19.5 20.9 23.4 21.6 20.6 22.2 23.4 25.7 22.9 11.7 2.2	10000	35.8	35.7	30.5		35.3	38.8	41.1	42.1	45.9	45.5	45.2	44.6	45.5	45.0	46.3	42.0	31.1	21.8	1.8
25.7 25.9 26.0 25.0 24.5 29.2 31.0 31.8 32.9 35.5 34.4 33.6 34.8 35.1 36.7 33.1 22.1 20.0 20.2 21.0 19.2 16.4 23.8 25.4 25.9 27.2 29.7 28.2 27.3 28.7 29.5 31.4 28.1 17.1 13.8 14.0 14.8 12.9 11.8 17.8 19.2 19.5 20.9 23.4 21.6 20.6 22.2 23.4 25.7 22.9 11.7	12540	31.0	31.0	31.8	30.3	30.1	34.2	36.3	37.2	38.1	40.7	0.04	39.3	40.4	40.2	41.7	37.7	26.8	17.5	
20.0 20.2 21.0 19.2 18.4 23.8 25.4 25.9 27.2 29.7 28.2 27.3 28.7 29.5 31.4 28.1 17.1 13.8 14.0 14.8 12.9 11.8 17.8 19.2 19.5 20.9 23.4 21.6 20.6 22.2 23.4 25.7 22.9 11.7	16000	25.7	52.9	26.0	25.0	54.5	29.5	31.0	31.8	32.9	35.5	34.4	33.6	34.8	35.1	36.7	33.1	22.1	12.8	
13.6 14.0 14.8 12.9 11.8 17.8 19.2 19.5 20.9 23.4 21.6 20.6 22.2 23.4 25.7 22.9 11.7	20100	20.0	20.2	21.0	19.5	10.4	23.8	55.4	25.9	27.2	29.7	28.2	27.3	28.7	29.5	31.4	28.1	17.1	7.7	
	25000	13.8	14.0	14.8	15.9	11.8	17.8	19.5	19.5	50.9	23.4	21.6	50.6	25.2	23.4	25.7	22.9	11.7	2.2	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

NOISE SOU T-378	1 01	ONCITO	FUNCTION OF ANGL	ш	AND DIS	DISTANCE	FRON S	SOURCE								TEST	TEST 74-00	4-058	
GROUN	SOURCE/SUBJECT: 378 AIRCRAF 16. J69-T-25	ISE SOURCE/SUBJECT: T-378 AIRCRAFT ENG. J69-T-25 GROUND RUNUP			OPERATIONS TRIM O	ATION: TRIM CHECK, 92% SINGLE ENGINE	ECK, 9	2% RPM		2000	METEOROLOGYS TEMP BAR PRES REL HUMI	PRESS HUMID	= 59.92 = 29.92 = 70	2 IN HG		PROFE	RUN 02 AIRCRAFT CODE 0 OPERATION CODE 0 PROFILE VERSION 13 FEB 76	CODE CODE CERSION	020 02007
DISTANCE	•	22	20	30	97	5.0	0.9	7.0	ANGLE 80		(DEGREES) 90 100	110	120	130	140	150	160	170	180
200	96.0	90.9	91.7		97.2	5.56	97.1	7.66	4.76	98.6	38.5	7.16	6.96	6.36	6.96	93.0	81.2	71.4	51.4
250	93.6	68.7	89.5		94.8	95.9	94.0	97.1	95.2	4.96	96.3	95.5	8.46	93.8	8 . 46		79.1	69.3	49.3
315	91.1	86.3	87.1	89.3	92.2	90.5	95.5	2.46	92.9	94.1	94.1	93.3	95.6	91.7	92.7	68.9	77.0	67.2	47.2
2 0	000		0 ** 0		9.60	200	30.1	25.3	0.0	91.0	91.9	31.1	4000	69.0	900	80.00	6.4.	62.1	45.1
930	83.6	79.1	79.8	31.4	83.9	83.1	85.1	87.2	95.8	07.1	87.2	9000	85.9	85.0	86.1	82.3	70.5	60.7	4.0.4
830	90.0	16.5	77.3		60.0	4.08	85.5	84.5	83.3	84.7	84.8	84.0	83.5	82.6	83.8		68.2	58.5	38.5
1000	76.9	73.9	74.7		77.6	77.6	79.8	81.7	A. 7	82.2	82.3	21.5	84.0	86.2	4 . 4	77.6	66.9	56.1	14.4
1250	73.7	71.2	72.0	72.7	74.2	74.9	77.1	78.9	78.1	79.67	79.7	78.9	78.5	77.5	78.8	74.9	63.3	53.6	33.6
1600	70.4	68.5	69.2		73.8	72.0	74.3	76.1	75.4	77.0	77.0	76.1	75.8	75.0	76.2	72.2	60.7	51.1	31.1
2000	67.1	1.59	6.99		67.3	69.5	71.4	73.2	72.6	74.2	74.1	73.3	73.1	72.2	73.4	4.69	58.0	48.4	28.4
2500	63.7	62.7	63.4		63.9	66.1	58.4	70.1	9.69	71.3	71.1	70.2	70.1	69.3	4.07	66.1	24.8	45.3	25.3
3150	60.2	29.4	60.1		4.09	62.7	65.0	6009	66.3	68.1	67.8	6 • 99	6.09	66.0	67.1	9.29	51.4	41.9	21.9
4000	92.8	2995	55.9		6.55	58.3	60.8	65.5	62.2	64.1	63.9	63.1	63.2	62.3	63.3	28.7	47.5	38.1	18.1
2000	21.0	20.4	51.5		51.1	53.5	56.0	57.7	57.5	29.1	9.69	58.9	59.1	58.1	59.1	24.4	43.3	33.9	13.9
6300	45.8	42.4	7.94	45.6	45.9	48.4	51.0	55.5	55.0	54.9	54.9	54.3	24.6	53.7	24.7	6.64	38.8	59.5	9.5
8000	41.0	49.7	41.5	•	40.8	43.8	46.2	47.5	6.24	20.4	2005	49.7	2005	49.5	2005	46.1	35.1	25.8	5.8
16000	35.8	35.7	36.5		35.3	38.8	41.1	42.1	42.9	45.5	45.2	44.5	45.5	45.0	46.3	42.0	11.1	21.8	4.1
12500	31.0	31.0	31.8		30.1	34.2	36.3	37.2	38.1	40.7	0.04	39.3	40.4	40.2	41.7	37.7	26.8	17.5	
16000	25.7	25.9	26.6	25.0	24.5	29.5	31.0	31.8	32.9	35.5	34.4	33.6	34.8	35.1	36.7	33.1	22.1	12.8	
20000	20.0	20.2	21.0		18.4	23.8	55.4	25.9	27.2	29.7	28.2	27.3	28.7	29.5	31.4	28.1	17.1	7.7	
25000																			

TABLE: NOISE LEVEL AS A FUNC DISTANCE = 250 FEET	FUNCTION OF	TON OF ANGLE ANDONE SOURCE	- CE) OMEGA 8.2) TEST 74-004-028
NOISE SOURCE/SUBJECT: 1-378 AIRCRAFT ENG. J69-T-25 GROUND RUNUP	OPE	IONE IM CHECK, 92X GLE ENGINE	RPH) HETE	OROLOGY: 59 F BAR PRESS = 29.92 IN H REL HUMID = 70 X A N = -3.0 DB	RUN 02) AIRCRAFT CODE 024) OPERTION CODE 02007) PROFILE VERSION A) 13 FEB 76
	d.	=PNLT	A=AL	T=ALT	
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> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOR	NORMALIZED 1/3 OCTAVE DISTANCE =	SOUND BAND 250	PRE	SSURE	SSURE LEVEL	(08)									IDENTI OMEGA TEST	DENTIFICATIONS OMEGA 8.2 TEST 74-004-02	ATION:	
NOISE SOURCE/SUBJECT: T-37B AIRCRAFT ENG. J69-T-25 GROUND RUNUP	CE/SUBJECT AIRCRAFT -1-25 UNUP			OPER HA) SIN	PERATIONS MAXIMUM SINGLE EL	POWER, ENGINE	25.66 6	5% 3PM		ETEOR TEMP BAR REL	METECROLOGYS TEMP BAR PRESS REL HUMID	= 29.9 = 29.9	6 2 0 8 N N N N N N N N N N N N N N N N N N	9	AIRCRAFT OPERATION PROFILE VE 13 FEB 76 PAGE C3	AFT CALLE VER	CODE C	024 02031 A
(BAND CENTER (FREQ (HZ)	9	3	50	30	0 †	D.	09	ANGL 70 8	E (0E	GREES 0 10	11	0 120	130	150	150	160	170	180
95	19	65	99	65	65		69		9	2 6			11	79	61	11	7.1	99
	69	89	29	29	20	7.1	72	2	72 7	2 7	3 75	62	90	82	82	11	29	9
08)	75	71	69	69	71			*	1	3 7	3		83	85	83	78	9	66
100	7.1	20	0.2	7.1	11			9	1	2 9	9		86		98	7.8	9	22
(125	73	72	72	72	72				1	8 7	6		89		87	28	69	25
160	74	74	14	72	14			6	80	8 0			91		89	18	29	61
500	14	52	52	15	1.4			1	80	9 0	1		95		87	78	99	62
(550	90	82	29	78	78			m	80	5 8	2		16		68	81	72	29
315	81	81	90	62	11			+	80	9	+		91		87	78	69	99
004	80	81	80	78	92			a.	80	9	2		89		88	28	69	19
200	81	82	82	18	92				•	2 8	9		93		88	11	29	49
(630	6.0	81	90	7.8	92			9	80	8 2	2		93		87	15	29	49
800	62	92	90	7.8	62			9	20	7 8	80		91		88	73	99	62
1000	78		9.0	62	90			7	80	6 9	0		95		87	72	99	62
(1250	62	92	92	62	8.0			2	20	6 6	-		91		83	7.1	49	29
1600	11	1.4	92	62	78			t	80	6 1	0		89		80	69	61	25
5000	11		92	18	78			*	80	5 8	6		88		81	89	9	25
(2500	92	72	73	92	20			2	20	3 8	2		98		62	99	28	24
3150	75	72	11	14	22			2	•	1 8	3		36		78	69	22	53
0004	47	72	69	73	1.4			6	60	8	-		81		75	62	22	51
9005	82	11	74	62	92			6	80	8 0	2		80		11	61	53	64
6300	83	62	92	90	28				1	8 6	1		77		99	58	20	94
0008	72	89	69	69	69			*	7	4	9		74		63	26	47	43
10000	69	99	99	99	29			1	1	2 7	2		7.0		25	20	43	39
OVERALL	95	91	16	90	90	46	95	6 26	6 26	8	6 6	101 6	103	104	66	68	80	22

	AS A FUNCTION OF ANGL	AS A FUNCTION	ON OF	W	AND DISTANCE	STANCE	FROM SC	SOURCE) ONEGA	OMEGA 8.2 TEST 74-004-02	2 04-028	
NOISE SO 1-37 ENG. GROU	C SOURCE/SUBJECT: T-37B AIRCRAFT ENG. J69-T-25 GROUND RUNUP	JAJECT VIRCRA 125	- =		OPER	OPERATION: MAXIMUM SINGLE E	POWER, ENGINE	75.66 ,	A P	20000	METEOROLOGY: TEMP BAR PRES REL HUMI DELTA N =	PRESS HUMID	= 29. 0 08	59 F 92 IN H 70 %	9	A AIR	RUN 03 AIRCRAFT OPERATION PROFILE VE 13 FEB 76 PAGE 03	000 000 881	DE 024)
DISTANCE	9	97	20	30	0,	50	9.9	7.0	ANGLE		(DEGREES)	110	120	130	140	150	160	170	180
230	106.9	104.0	102.9	104.7	163.9	107.4	107.4		109.6		112.4	113.7	114.0			108.5	97.8	88.5	83.6
250	104.5	-	-		101.5	105.0		107.4 1		108.2		111.4	111.9	112.	111.5	106.3	1.56	86.3	81.4
315	102.0			69.6	99.0				-	105.9		109.1	109.6	109.		104.1	93.4	84.0	79.1
004	99.3	96.5			9.96					103.6		106.7	107.3	107		101.8	91.2	81.7	76.8
200	90.0	93.8			94.1				m .	101.1		104.2	104.9			4.66	88.8	79.3	74.5
200	93.0	20.0	90.5	91.9	71.0		95.1	9.76	97.8	98.0	170.0	101.6	105.4	102.5	102.3	0.76	2.00	74. 3	12.0
9	0.00				• • • • • • • • • • • • • • • • • • • •			24.3	4	0.06		300	23.0	201	•	24.0	0.00		020
1000	87.4	85.1	85.1		85.	88.5	9.68	92.1	92.3	93.2	95.2	96.0	97.0	97.3	96.8	91.9	80.9	711.7	66.8
1250	83.8	82.2			82	92.5	86.5	89.1	89.3	90.5	95.2	95.9	94.1	4.46	93.8	89.1	78.2	68.9	64.0
1600	80.3	79.5			79.	82.5	83.3	85.9	86.2	87.1	89.1	89.6	6.06	91.3	2.06	86.2	15.5	66.0	61.0
2000	7.97	76.0			76.	79.3	90.5	82.5	85.9	83.8	85.8	86.1	87.6	88.2	87.3	83.2	72.1	62.8	57.7
2500	73.0	72.6	72.8	72.0	72.2	75.5	5.92	78.8	2.62	80.2	82.2	82.3	83.9	84.9	83.5	19.6	68.2	58.8	53.9
3150	64.8	68.6			68	71.5	72.5	4.9	75.2	16.4	78.2	78.2	80.0	81.2	79.7	75.8	64.1	54.3	49.8
0004	64.3	04.5			63	67.0	68.1	9.02	70.8	72.1	73.8	73.8	15.5	77.0	15.4	71.6		49.3	44.9
2000	29.4	59.3				62.2	63.4	66.1	999	67.5	69.0	69.3	70.8	72.4	9.02	67.1	24.4	43.7	39.3
6300	54.1	24.5	24.6	53.4	53.1	57.0	58.3	61.0	61.1	62.4	63.7	64.3	62.6	4.29	9.59	62.2		37.8	32.4
8030	4.64	1.64	50.5		49.1	52.8	53.9	9009	50.5	57.5	58.7	28.1	61.2	63.3	61.5	57.9	44.0	32.3	26.1
10000	44.2	44.8	45.3					51.4	51.6	52.7	53.5	54.5	56.4	58.7	56.9	53.1	38.8	25.1	17.4
12500	38.6	39.3		36.1				45.9	47.8	47.3	47.6	48.6	51.3	53.6	51.8	47.8	33.0	17.1	6.9
16000	31.7	32.8			26.0	36.2	37.1	39.6	39.5	41.2	6.04	41.4	45.3	48.2	45.7	41.9	26.0	9.1	
20000	23.1	24.5		18.8	14.0			32.3	31.9	33.7	33.2	33.1	38.3	41.7	38.8	34.8	15.8	1.1	
25000	9.3	11.6			2.1			22.5	21.1	24.5	22.9		29.6	33.2	30.7	26.0	5.6		

NOISE SOU T-378 ENG. GROUN		A LONGITON	N OF	ANGLE !	AND DI	DISTANCE	FROM	SOURCE) OMEGA	GA 8.2 T 74-00	OMEGA 8.2 TEST 74-004-028	
	00RCE/SC 78 . J69-T- UND RUN	SE SOURCE/SUBJECT: T-378 AIRCRAFT ENG. J69-T-25 GROUND RUNUP	- 1:		OPER	OPERATION! MAXIMUM SINGLE ET	POWER, ENGINE	, 99.5%	K RP M	2000	ELTAN =	PRESS HUMID =	= 59 = 29.92 = 70	F M X	ş	A AIR	RUN 03 AIRCRAFT OPERATION PROFILE VE 13 FEB 76 PAGE E3	COC COC SSI	DE 024)
DISTANCE (FEET)	•	3	26	30	9	50	60	22	ANGLE		(DEGREES)	110	120	130	140	150	160	170	180
200	138.7	105.3			-		108.2		110.2	110.4	112.4	113.7	114.7	114.7		108.5	98.3	89.1	84.
315	106.2	102.9	101.6		102.4	105.0	105.8	105.6	105.7	108.2	110.2	111.4	112.5	112.5	112.1	106.3	96.2	86.9	81.9
100	101,0	97.8		99.8			130.9		103.3	103.0	135.6	106.7	108.0	108.0		101.8	91.7	82.3	77.
200	98.3						4.86		130.9	101.1	103.2	104.2	105.6	105.6		99.4	89.3	19.9	75.
630	45.4						95.8		98.3	98.6	100.6	101.6	103.1	103.2		97.0	86.7	77.4	72.
990	95.4		99.9	90.06			93.1		95.7	96.0	98.0	98.8	100.5	100.6		6.46	84.1	6.42	70.
1006	89.1	4.99	86.2	87.7	86.		90.3	95.6	95.9	93.2	95.2	90.0	7.76	97.8	4.76	91.9	81.5	72.2	67.
1250	45.5		83.		43.7	86.5	87.2	89.6	89.9	90.2	92.2	92.9	8.46	6.46	4.46	89.1	78.7	4.69	64.
1600	82.0	80.5			83.		84.1	86.4	86.7	87.1	89.1	89.6	91.6	91.9	91.3	86.2	75.7	66.5	61.
2300	78.4		77.		76.		6.08	83.0	83. 4	83.8	85.8	36.1	88.3	88.8	87.9	83.2	72.7	63.4	58.
2500	74.7			74.1	73.		77.2	79.3	79.8	80.2	82.2	82.3	9.48	85.4	84.1	9.62	68.7	59.3	54.
3150	13.6				69		73.2	75.4	75.8	16.4	78.2	78.2	80.6	81.8	80.3	15.8	9.49	6.46	50.
2004	65.7				64.		68.7	71.0	71.3	72.1	73.8	73.8	76.1	77.4	75.8	71.6	8 66	8.64	45.
2000	60.4				58.		63.4	4.59	600	67.5	69.0	69.3	71.2	72.7	71.0	67.1	24.7	44.1	39.7
6300	54.8		55.0	54.0			54.6	61.2	61.3	4.20	03.7	64.3	66.1	67.6	6.59	62.2	49.0	38.0	32.
8430	8.64				48.		54.0	2.99	96.6	5.10	58.7	29.1	61.3	63.4	61.6	57.9	44.1	35.4	56.
10000	44.2				42.		49.1	51.4	51.6	52.7	53.5	54.5	56.4	58.7	56.9	53.1	38.8	25.1	17.
12500	38.6				35.		43.4	45.9	45.8	47.3	47.6	48.6	51.3	53.6	51.8	47.8	33.0	17.1	6.9
16030	31.7	32.8	33.2	29.0	26.0	36.2	37.1	39.6	39.5	41.2	6.04	41.4	45.3	48.2	45.7	41.9	26.0	9.1	
20000	23.1				14.		30.0	32.3	31.9	33.7	33.2	33.1	38.3	41.7	38.8	34.8	15.8	1.1	
25000	9.3				2		0 0 1	2000	, ,,		0			133					

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30URCE/SUBJECT: 15. J69-T-25 16. SINGLE ENGINE 17. J69-T-25 18. J69-T-25 19. SINGLE ENGINE 19. SINGLE							TEST 74	A 8.2 74-004-028	
STANCE 10	, 99.5% RPM	METEOR METEOR DELTA	METEOROLOGY: TEMP BAR PRESS = 2 REL HUMID = DELTA N = -3.0	. 6	59 F 92 IN HG 70 %		RUN 03 AIRCRAFT COPERATION CPROFILE VER 13 FEB 76 PAGE F3	CODE 4 CODE /ERSION	020 02031
92.6 90.5 90.6 91.4 91.0 94.1 95.1 90.3 88.5 89.2 88.8 91.9 92.9 87.9 86.1 86.3 86.9 86.5 .91.6 91.9 92.9 87.9 86.1 86.3 86.9 86.5 .91.6 91.9 92.9 83.0 81.5 81.5 81.5 81.5 81.5 81.5 81.5 81.5	ANGL	E CDEGR	EES) 100 110	120	130 1	140 1	150 160	170	180
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18.4 19.3 19.2 16.4 15.1 21.4 22.2					8		1 15.	2	25.3

NOISE SOUR		A FUNCTION	OF	ANGLE A	AND DIS	DISTANCE	FROM SC	SOURCE) OMEGA		74-004-028	
	ACE/SU A J69-T-	ISE SOURCE/SUBJECT: 1-376 AIRCRAFT ENG. J69-T-25 GROUND RUNUP			OPERATIONS MAXINU SIGGE	and the same of th	H POWER, ENGINE	. 99.5%	z RP H		METEOROLOGY & TEMP BAR PRES REL HUMI DELTA N =	PRESS HUMID	= 59.92 = 70 0 08	9 F 10 % HG		AIRCRAF OPERATI PROFILE 13 FEB	m is 14 1.1 10	CODE	020 02031
DISTANCE (FEET)		10	20	30	0,	50	0.9	2	ANGLE 80		(DEGREES)	110	120	130	140	150	160	170	180
200	94.3	91.8	91.7		91.9	95.1	89.68	98.0	98.2	98.7	*			102.9	101.7	6.96	85.4	77.1	73.
315	92.0	89.6	89.6	90.6	89.7	95.9	93.6	95.8	96.1	96.5		98.9	100.6	100.8	99.6	94.8	83.3	75.0	68.8
000	87.2	85.1	85.2		85.1	88.3	89.2	91.5	91.7	92.2	6			96.5	95.4	90.5	79.1	70.8	66
200	2 4	85.8	85.9	93.6	85.8	86.0	6.98	89.2	9.4	89.9	9			94.3	93.1	88.4	6.97	68.6	64.
630	82.2	4.08	90.8		90.4	83.6	94.6	86.9	87.1	87.6	m			92.0	6.06	86.1	74.7	4.99	62.
800	19.6	18.0	78.3		17.9	81.2	82.2	84.5	84.8	85.3	σ			2.68	88.5	83.9	15.4	64.1	60.1
1000	76.9	75.6	75.9		73.4	78.7	79.8	82.1	82.3	82.8	84.5	84.9	86.9	87.3	86.1	81.5	70.0	61.8	57.
1250	74.2	73.1	73.5	73.5	72.7	70.2	77.3	79.6	79.8	80.3	81.9	82.3	84.4	84.9	83.5	79.1	67.5	59.3	55.5
1500	71.4	70.5	6.02		70.0	73.5	74.7	77.0	77.2	7.17	79.2	9.62	81.8	82.3	80.8	76.6	65.0	56.7	52.1
2000	68.6	61.9	64.3		67.2	70.8	72.0	74.3	74.5	75.0	16.5	76.8	79.1	19.6	78.0	74.0	62.3	54.1	50.1
2530	9.59	65.0	9.50		64.1	6.79	69.1	71.3	71.5	72.0	73.5	73.8	76.1	76.8	75.0	71.1	59.3	51.1	47.
3150	4.20	61.8	62.2		69.0	9.49	65.8	68.2	69.3	68.89	70.2	20.2	72.9	73.7	71.7	6.79	26.0	47.8	44.
4000	58.4	57.9	59.5		57.1	60.8	62.2	64.5	2.49	65.3	2.99	67.0	69.3	20.0	68.0	64.5	55.2	44.1	40.4
5000	54.0	53.0	54.3	53.4	53.0	9099	58.0	60.6	9.09	61.3	62.7	63.1	65.1	69.69	63.9	60.5	48.0	39.9	36.
6330	49.3	49.0	49.8		48.5	52.1	53.0	56.1	56.1	57.0	58.3	58.8	60.7	61.5	29.4	56.3	43.5	35.4	31.6
9000	45.6	6.44	45.6		44.0	47.8	49.3	51.8	51.8	52.7	53.9	24.5	56.3	57.4	55.5	52.3	39.6	31.4	27.
10000	40.3	40.5	41.1	39.5	39.0	43.3	44.6	47.1	47.1	48.1	49.1	1.64	51.5	52.9	50.6	48.0	35.4	27.1	23.
12500	35.5	35.9	36.3		33.8	38.5	39.7	42.1	42.0	43.0	43.8	4.4.4	46.5	48.2	45.8	43.3	31.0	22.5	18.
16000	30.3	30.9	31.2		28.1	33.3	34.4	36.6	36.5	37.5	38.0	38.6	41.0	42.9	40.5	38.1	26.2	17.5	13.
20000	24.7	25.4	25.5	22.8	21.8	27.6	28.6	30.7	30.5	31.6	31.8	32.2	35.0	37.2	34.9	32.4	20.9	12.0	8.4
25000	18.4	19.3	19.2		15.1	21.4	22 2	1 70	21. 0	1 30	20.00	25. 2	20 6.	20.02	000	1 36		•	

		DISTANCE =	250 FEET	EET		250 FEET							200	A 8.2 74-004-0	
NOISE SC T-37 ENG. GROU	OURC 78	SUBJE AIRC T-25 NUP		••••	OPERATION: MAXIMU Single	ATION: MAXIMUM POWER, SINGLE ENGINE	99.5%	A A	METEOROL TEMP 3AR REL DELTA N	PRESS HUMID	9.92 70 70	F X X HG	A PROPERTY OF A	RAFT COD ATION COD ILE VERSI EB 76	E 024 E 02031 ON A
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1 - 3 8 9 8				PAGE	. 409-417 . 418-426 . 427-435 . 436-444		AFT SFLT, EPNL) SELT, EPNL)	SE , A T O R Y	11136
AIRCRAFT AIRCRAFT	ON THE GROUND BY AIRCRAFT	ATIONS	1ENTS 033 1EGA 6.6			TA ARE PROVIDED	ALIZED MEAN SPL SPECTRUM AT PNLM E LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT AIR-TO-GROUND PROPAGATION SOUND PRESSURE LEVEL SPECTRA SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SF GROUND-TO-GROUND PROPAGATION SOUND PRESSURE LEVEL SPECTRA SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SE	4 A A A A A A A A A A A A A A A A A A A	1-36 AIRCRAFT 1-36 AIRCRAFT 1-36 AIRCRAFT 1-36 USAF 1-36 AIRCRAFT 1-36 AIRCRAFT 1-36 AIRCRAFT 1-38 USAF 1-36 AIRCRAFT 1-38 AIRCRAFT 1-38 USAF
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AIRCRAFT AIRCRAFT	NOISE PROD	OURING	FLYOVER AIRCRAFT PROFILE V		0% RPM	SETTING,	MALIZED MEAN SPL SPECTRUM AT PNLM SE LEVELS AS A FUNCTION OF SLANT DIST AIR-TO-GROUND PROPAGATION SOUND PRESSURE LEVEL SPECTRA SINGLE EVENT MEASURES (AL, ALT, SOUND PRESSURE LEVEL SPECTRA SOUND PRESSURE LEVEL SPECTRA SINGLE EVENT MEASURES (AL, ALT.	T T E R D I C A A C A A	AIRCRAFT AIRCRAFT AIRCRAFT
1 - 1 3 8 9 6 9				POWER SETTING	AFTERBURNER 100\$ TAKEOFF 100\$ RPM CRUISE 90\$ RPM APPROACH 91\$ RPM	FOR EACH POWER	NORMALIZED MEAN NOISE LEVELS AS AIR-TO-GROUN SOUND PE SINGLE SOUND PE SINGLE SINGLE	8. H 8. H 8. H 8. H 8. H 9. H	1-36
AIRCRAFT AIRCRAFT				11	4,004	П	22	43 m3	AIRCRAFT AIRCRAFT
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•		• •	•			•				MEAN VALUE OF NC AFTERBURNER	KNOTS
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		••	•					•		30	AIRSPEED = SLANT DISTANCE =

		5	AIR-TO-GROUND	ID PROF	OPAG	ATION	z														OMEGA 6.6	6A 6	9.	
AIRCRAFT	1-38					OPER A	FTERBION 100	ERATION: AFTERBURNE 100 % RPM AIRSPEED =	A # "	1 0 0	ER KNOTS			1 3	OROLOGY TEMP REL 1	- 5 -	10 1	59	L×	1	A/C OPS PROF 19 J	CODE CODE FILE JAN 7		033 101 Rt A
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	3,4	55	FRE 26	QUENCY 27 26	CY B	AND 29	NUMB	8ER 31	32	m m	# #	35	36	37	80 M	66	3
200	93	92	89	103	-	113	110	108	116	N	114	115	115	114	-	112	13	m	13		N	13		2
250	91	96	87	101	0	111	108	106	114	_	112	113	113	112	-	-	11	-	10	-	0	10		2
315	89	88	85	66	0	109	106	104	112	80	110	111	111	110	0	0	60	8	0.8	6	1			=
004	87	96	83	26	0	107	104	102	110	9	108	109	108	108	0	0	90	9	02	9	*	10		=
200	85	84	81	95	102	105	102	100	108	103	106	107	106	105	104	104	104	103	103	103	101	5	105	107
630	83	82	52	93	0	102	100	96	105	-	104	105	104	103	0	0	01	-	00	0	16			2
900	91	80	11	91	98	100	86	96	103	o	102	103	102	101	66	66	0	96	~	~	76			σ
1000	62	78	15	89	96	98	96	16	101	16	100	100	100	66	96	96	96	98	93		06	87	88	80
1250	11	91	73	87	36	96	46	92	66	95	96	96	16	96	94	46	93	95	06	88	85	81	80	~
1600	15	74	71	85	92	46	95	68	26	93	95	96	95	76	91	91	06	88	86		62	14	11	9
2000	73	72	69	83	90	95	68	87	95	90	93	93	92	91	88	87	86	48	81		73	99	9	4
2500	7.1	20	29	81	88	90	18	85	92	88	91	91	89	88	85	84	83	80	16		99	96	47	2
3150	69	99	65	62	85	88	85	83	90	96	88	88	87	85	82	80	78	75	20		25	45	31	
0004	29	99	63	11	83	98	83	80	88	83	85	85	83	81	78	92	73	69	95		94	30	11	
2000	69	63	61	74	81	83	80	18	85	80	82	82	80	7.8	74	7.1	68	62	24		33	13		
6300	63	61	56	72	79	81	78	15	82	78	62	19	92	73	69	65	61	24	43		17			
8000	61	66	96	20	16	78	22	73	8.0	12	92	75	7.5	69	63	29	53	*	31					
10000	65	57	24	99	14	16	73		11	7.1		71	29	63	25	51		33	16					
2500	96	95	55	69	7.1	73	20		73	29		99	62	25	64	45		18						
6000	24	55	64	63	69	7.0	29		69	63		09	55	64	04	30	19	-						
20000	55	20	24	09	99	29	63	09	65	28	58	24	47	0 1	59	11	8							
2000	0.7			-									100000000000000000000000000000000000000											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
* BAND WHICH DETERMINES THE TONE CORRECTION (C).

AIK-10-6	AIR-TO-GROUND PROP	AGATION					•	OMEGA 6.6
AIRCRAFT: T-38		(OPERATIONS (AFTERBURNER (100 % RPM	RNER POWER		METEOROLOGY: TEMP REL HUN	= 01	59 F)	A/C CODE: 033 OPS CODE: 101 PROFILE VER:
		(AIRSPEE(0 = 300 KNOTS	15	DELTA N =	0.0 08	^ ^	09 JAN 76 PAGE I1
SLANT DISTANCE	AF.	ALT**	PNL	PNLT		SEL	SELT**	EPNL **
(FEET)	(084)	(08A)	(PN08)	(PN08)		(00)	(08)	(EPNDB)
200	127.3	128.3	140.6	141.6		123.8	124.6	127.7
250	124.5	125.5	137.8	138.7		122.0	122.9	125.8
315	121.7	122.6	134.7	135.7		120.1	121.0	123.8
004	118.8	119.8	131.9	132.9		118.3	119.1	122.0
200	115.9	116.9	129.1	130.1		116.4	117.3	120.2
636	113.2	114.1	126.2	127.2		114.6	115.5	118.2
800	110.4	111.4	123.2	124.2		112.9	113.8	116.3
1000	107.8	108.7	120.1	121.1		111.2	112.1	114.2
1250		106.0	116.9	117.9		109.5	110.4	112.0
1600	102.3	103.3	113.6	114.5		107.8	108.7	109.6
2000	66.5	100.5	110.0	111.0		106.0	106.8	107.1
2500	9006	9.76	106.8	107.7		104.0	104.9	104.8
3150	93.6	9.46	103.5	104.5		102.0	102.9	102.6
0000	7.06	91.2		101.0		666	100.6	100.1
5000	87.1	87.7	•			91.6	98.1	9.76
6300	83.7	84.1	3	93.8		95.2	95.5	6.46
0000	80.0	80.2	6			95.5	92.7	92.1
10000	76.2	76.2	S	85.9		6	6	89.1
12500	72.1	72.1	+	81.9		9	9	86.1
16000	67.8	67.8	77.5	77.5		3	3	82.7
00	63.2	63.2	72.8	72.8		79.6	79.6	79.0

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

AIRSPEED	. TEMP	I DEN		•	•	•	•		•		•				•	× ·	× •	٠	×	
PH 300	F 0.0	CORDS 6-033		•						•			A	*	×	× · · · ·	× •	×		
	SEL HUMID	6 101-090176	•	•	•					. A•	. A+	A+	.x	<u>a</u> *	*		•			
	= 70 %	4-			•	A	. A+	. A+	A+	d *	•	d			•					
	•		A+.	. A+	A		•	a. *	• • • • • • • • • • • • • • • • • • •			•		•	•	•		•	*	
×	. A.	4		•	•	* 6.			:						•					
•	•	<u>م</u> •	• •	•			- 10.00								10A		AIR P		•	
b				•													TO GROUND = PNLT	# ALT	. AL	

AIRSPEED = 300 KNOTS TEMP = 59 F REL HUMID = 70 X OELTA = 6.033-101-090176-A TOENTI 6.6-033-101-090176-A TOENTI 6.6-033-101-0901	250 (100	O % RPM				•			. ST E	
TEMP = 6.0 DB NO. OF RECORDS: 6	AIRS								;		
ST E TOENTS 6-6-033-101-090176-A ST E S	5	. TEMP	ت ا ك		= 70	•	•				
ST E		NO.	OF RECORDS	9							
ST E				•	•	:	:	:	ST		-
SY S				٠	1	•			. ST		
SY S			1	•	·	•	•				
SX S		:	•		:	:	•	:			-
SX S						•	٠			46	
SX S					1	2 ·s	•	ST	u.		
SX					•	•		Sx.	:	•	
XT X			•	٠	٠	٠	٠	XS		•	
XT X		٠	•	٠	•	•	200	×s		***	
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					× .	٠	•				
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	GROU	NO-1	GROUND-TO-GROUN	ONO	PRO	PAGA	110N														OMEG	3 A 6	9	
AIRCRAFT	-38					O PER	FE S	RBURNE TO X RPI	1 4 8	OWER 0 KNOT	210			ETEOR	YEL NEL NEL	- 5 0	# QI 80 0	59	4.7	7	AVC OPS PROF PAGE	CODE CODE TLE JAN 7	6 K B 10	333 8 A
SLANT DISTANCE (FEET)	7	18	19	20	22	82	23	3.4	25	FRE 26	QUEN(28 82	AND 29	NUM BE	31	32	33	3.6	35	36	37	8 0 M	39	1 4
200	88	87	48		90	108	105	2	-	20	0		0	60	20	10	0.8	9 0	9.6	60	20	90	14	12
250	96	92	82	96	103	106	103	101	109	105	107	80	108	107	105	105	106	106	105	106	105	105 1	111	=
212	* 0	5 6	2 8		100	101	100	7 1	- 15	3 5	0 M		0 M	2 6	200	2 -	† t	2 5	200	* -	200	200	900	75
200	86	25	92	8		66	96	. 15	m	98	010	05	, ,	00	66	66	66	96	96	9			00	22
630	7.8	11	14	88	16	96	16	2	100	96	6	00	66	98	96		96	96	68	95			95	6
800	92	15	72	96	35	46	91	6	98	76	26		16	96	76		16	93	95	95		28	89	80
1000	14	73	20	83	89	91	88			95	95	95	96	46	91		91	90	88		85	82	83	80
1250	72	7.1	29	80	85	87	92	83	93	90	93	93	95	91	88	89	88	87	85	83	80	92	75	70
1600	20	68	19	92	82	94	81			88	96	91	06	69	98		85	83	81		12	69	99	
2000	29	49	9	72	78	80	11			92	88	88	87	86	83		81	62	16		99	61	25	
2500	49	9	26	68	14	92	73			82	62	90	78	83	80		78	25	7.1		61	51	42	
3150	9	96	51	63	69	11	68			11	82	83	82	80	11		73	20	65		55	0 4	56	
0004	52	51	9*	28	63	65	62			73	78	4	78	16	73		89	49	25		41	52	9	
2000	20	94	41	53	66	60	25			29	14	22	15	73	69		63	25	64		28	80		
6300	45	41	37	48	24	55	55			62	69	7.1	20	68	19		99	64	38		12			
8000	43	39	34	94	51	53	20			28	99	29	99	9	28		8 4	36	56					
00001	41	37	32	*	64	20	47			52	62	63			52	94	39		11					
12500	38	35	30	41	94	48	*			51	58	58			1 1	37	27	13						
00091	36	32	27	39	11	45	41	38	147	24	53	55	64	77	35	25	14							
20000	34	30	52	36	41	42	38			45	48	94			24	12								
																*								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6 SAND WHICH DETERMINES THE TONE CORRECTION (C).

				-				
GROUND-T	GROUND-TO-GROUND P	ROPAGATION						OMEGA 6.6
AIRCRAFT : T-38		(OPERATION: (AFTERBURNER P (110 % RPM	IER POWER		METEOROLOGY: TEMP REL HU	Y: HUMID =	59 F)	
		(AIRSPEED	= 300 KNOTS		DELTA N =	0.0 08	~ ~	09 JAN 76 PAGE M1
SLANT DISTANCE	AF.	ALT**	PNL	PNLT**		SEL	SELT**	EPNL
(FEET)	(08A)	(DBA)	(PNDB)	(PN08)		(00)	(00)	(EPNDB)
200	122.3	123.4	135.6	136.8		118.8	119.8	122.9
250	119.5	120.6	132.8	133.9		117.0	118.0	121.0
315	116.7	117.8	129.7	130.9		115.1	116.2	119.0
00+	113.8	114.9	156.9	128.0		113.3	114.3	117.1
200	110.9	112.1	124.1	125.2		111.4	112.5	115.3
630	108.2	109.3	121.1	122.2		109.6	110.7	113.3
800	105.4	106.6	118.1	119.2		107.9	108.9	111.3
1000	102.7	103.9	114.9	116.1		106.2	107.2	109.1
1250	6.66	101.1	111.6	112.7		104.4		106.8
1600	97.1	98.3	108.0	109.1		102.6		104.2
2000	2.46	95.4	104.1	105.3		100.7	101.7	101.4
2500	91.1	92.2	100.1	101.3		98.6	98.6	98.4
3150	87.7	88.9	96.2	97.3		96.2	97.3	95.4
0004	84.0	84.9	91.7	95.6		93.5	94.3	91.7
5000	19.8	80.5	86.7	87.4		90.5	6.06	87.5
30	75.2	75.6	81.5	81.9		86.6	87.0	83.1
8000	70.8	71.1	77.0	77.2		83.3	83.5	19.4
10000	66.1	66.1	72.2	72.2		ര	79.6	75.4
12500	6009	6.09	6.99	6 • 99		S	15.4	71.1
16000	55.5	55.5	61.3	61.3		0	7.07	66.5
20000	0.64	0.64	55.5	55.2		65.4	65.4	61.3
25000		0 67	. 0 .	. 0.7		(

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

NOC. OF RECORDS: 66 10ENT: 6.6-033-101-090176-A 10ENT: 6.6	AIRSPEE TEMP =	F 30	D KNOTS REL HUMID = 70 %	•		A .	
X X X X X X X X X X X X X X X X X X X	NO. OF IDENT:	CORDS: 6 6-033-101-				•	0
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1250 (•			•	•		ST E			
1600 (•		•	. •	•		×S	•	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	i.i.
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3150 (•		EST		٠		
0000		•			•	•	EST .		•		
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6300 (•			•	×			•		
8000		**			E. ST	•			•	- 1 00 - 10 - 10 - 10	
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	20	30	40 MEAN VALUE	50 OF NORMALIZED	1/3 0	70 8 SPL IN	8 80	0	06	1	
	T-3	38	TAKEOFF	F POWER		100 % R	RPM				
ITESPE	AIRSPEED SLANT DISTANCE	= 299	KNOTS	TEMP REL HUI	= 59 HUMID = 70	F %		PNLT	-	1.0 PNDB	m m
NO. OF	F RECORDS	9		I DENT :	6.6-033-103-090176	03-09017	9	AL	11		

	AIR-	10-6	AIR-TO-GROUND		PROPAG	ATIO	z														OMEGA		9.9	
AIRCRAFT	1-38					OPER T	AKE 10 18	FR X B	PM =	D KNOT	ST0			ETE	OROLOG TEMP REL I	- 5 -	10 10 00 00 00 00 00 00 00 00 00 00 00 0	59	L×	7	PROFI	SOUNT	5 K 1 0	* 9 3 3
SLANT DISTANCE (FEET)	17	18	19	50	2	22	23	24	55	FRE 26	QUEN 27	CY 8	AND 29	30	3.1 3.1	32	33	*	35	36	37	3.6	8	3
200 250 315	82 80 78	82 92 92	73	89		96	91 89		99	101 99 97	401	103	104 102 99	+ 0.0	400	104	103	105	105	104 101 99	100 97 95	98	95	97
500 630 601	2222	2228	2125	83 73 77	8 8 8 8 8 8 9 4 5 8 9 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9	98 99 99 99 99 99 99 99 99 99 99 99 99 9	85 81 79	91 89 87 85	93 94 89	96 88	8 8 8 8 8 8	93	97 93 91	96 96 91 91	95 93 91	98 96 93	96 96 97 97 97 97 97 97 97 97 97 97 97 97 97	98 96 93	98 93 90	96 93 96 98	8 8 9 2 8 8 9 5 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9	86 86 78	88 46 74 74	84 79 72
1600 1250 1600	68 65 63	66	63 65	122		82	72 23			86 84 82		88 96 48		89 84 84	8 8 8 8 8		8 8 9 8 9 8 9	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	833		74 69	73 68 61	68 61 53	502
2000 25u0 315u	61 59 57	50 57 55	53	6.8 6.4 6.4		242	70 68 66			32 22		81 79 76		82 79 76	81 74 74		80 76 72	78 74 63	72 49		63 48 88	35	43	31
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* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: < BAND WHICH DETERMINES THE TONE CORRECTION (C).

	AIR-TO-GROUND PROP	AGA					•	OMEGA 6.6
AIRCRAFT: T-38		(OPERATION: (TAKEOFF	POWER RPM		METEOROLOGY TEMP REL H	Y: = 5 HUMID = 7	9 H S S S	300E
		(AIRSPEE	D = 300 KNOTS	TS)	DELTA N =	0.0 08	~~	09 JAN 76 PAGE I2
SLANT DISTANCE	ar.	ALT**	PNF	PNLT**		SEL	SELT**	EPNL **
(FEET)	(DBA)	(DBA)	(PN08)	(PN08)		(08)	(00)	(EPNOB)
200	115.1	115.7	128.3	128.9		115.1	116.1	118.5
250	112.8	113.5	126.0	126.6		113.9	114.8	117.2
315	110.6	111.2	123.6	124.3		112.6	113.6	115.9
004	108.2	138.9	121.2	121.8		111.3	112.3	114.4
200	105.9	106.5	118.7	119.3		109.9	110.9	112.9
630	103.4	104.1	116.0	116.6		108.5	109.4	111.2
800	100.9	101.5	113.3	113.9		107.0	107.9	109.5
1000	98.3	98.9	110.4	111.0		105.4	106.3	107.6
1250	95.6	96.2	7	108.0		103.6	104.6	105.6
1600		93.4	104.2	104.8		101.8	102.8	103.4
2000	89.8	4.06	10001	101.4		6.66	100.8	100.9
2500	86.7	87.4	97.1	7.76		97.8	98.7	98.3
3150	83.5	84.1	93.3	93.9		92.6	96.5	95.5
4900	80.1	9.08	89.2	89.7		93.2	93.9	92.3
2000	9	77.0	6.40	85.3		90.6	91.2	88.8
6300	72.8	73.1	81.0	81.3		87.9	88.3	85.7
8000		9.69	77.0	77.2		85.0	85.2	82.5
10.00	64.8	64.8	72.9	72.9		81.8	81.8	79.2
12500	60.4	4.09	68.5	68.5		78.4	78.4	15.8
16000	55.8	55.8	63.8	63.8		74.8	74.8	72.1
20000	6.09	50.9	58.8	58.8		71.0	71.0	68.0

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

KNOTS REL HUMID = 70 % 1 06 103-090176-A 1

	GROU	1-0	GROUND-TO-GROUND	ONNO	2	OPAGATION	ATION														OMEGA	9	OMEGA 6.6	•
AIRCRAFT 8	1-38				1	OPER	RATION: TAKEOFF 100 %	•	POWER	100			E	ETEOR	OROLOGY B TEMP REL HU	HUMIC	""	59 6	4 %	7777	A/C (OPS PROF)	300E	# 03 # 10 VER:	m m
						AI	RSPE	E0 =	300	KNOT	2		00	ELTA	II Z	0.0	08				PAGE	LZ	۰	i
SLANT DISTANCE (FEET)	11	18	61	20	21	22	23	24	25	FREQ 26	QUENCY 27 2	2 8 BA	0.6	NUMBE 30	31	32	33	34	35	36	37	80 10	39	6
200	77	75	74	84	80	6			70	90	96	8	0	0	0	00		0.0		0	20	20	00	0
250	75	12	12	20	8.7	100			0.0	90	0 0	96	20	0.0	0.0		9 6	9 0	80	96	000	000	20	0
315	73	2.2	22	80	85	87	2 0	9 80	90	92	92	36	36	95	95	96	96	96	95	94	90	87	86	89
004	7.1	69	99	78	83	85			88	89	06	92	92	93	93	63	76	93	93	91	87	84	83	0
500	69	29	99	16	81	83			96	87	87	90	06	91	06	91	91	91	06	88	18	81	62	-
630	29	65	49	14	78	80			84	85	85	88	88	89	88	88	89	88	88	85	81	77	14	~
900	69	63	9	11	92	11			82	83	83	85	9 8	98	98	9 8	98	98	82	82	11	73	69	9
1000	63	61	09	68	73	754	69		8.0	81	81	83	94	94	94	83	84	83	82	8.2	73	89	63	9
1250	09	59	25	69	20	7.1	99		22	62	62	81	81	82	81	81	81	8.0	7.8	14	69	63	99	50
16.0	58	55	53	62	99	68	52		42	77	11	62	62	62	78	8 2	78	11	42	20	49	99	48	2
2000	55	25	20	58	62	49	65		2.0	75	112	16	91	11	92	15	25	73	2.0	65	58	64	38	0
2500	25	48	94	24	58	09	24		99	71	72	1.4	14	14	73	72	7.1	69	69	58	51	04	27	-
3150	48	43	47	64	53	55	64		62	29	68	11	7.1	71	69	89	29	49	65	51	43	30	12	
0004	43	38	36	43	49	64	43		25	62	69	68	68	68	99	49	62	66	53	43	34	11		
2000	38	34	31	38	43	1.1	39	45	51	96	09	49	94	19	62	09	25	25	45	33	22	2		
6300	33	53	56	34	38	39	34		45	51	96	65	09	9	25	24	51	45	36	21	6 0			
8000	31	27	54	31	36	37	31		45	84	53	99	96	99	25	48	* *	36	52	9				
10000	53	25	22	59	33	35	59		39	45	64	55	55	51	94	41	36		11					
12500	27	23	19	27	31	32	56		36	41	45	14	47	45	04	33	52	13						
16000	54	20	11	54	28	58	23		32	37	41	45	41	38	31	23	13							
20000	22	18	15	22	56	92	20	25	28	33	36	38	34	30	22	11								
25000	000											-												

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6 ** BAND WHICH DETERMINES THE TONE CORRECTION (C).

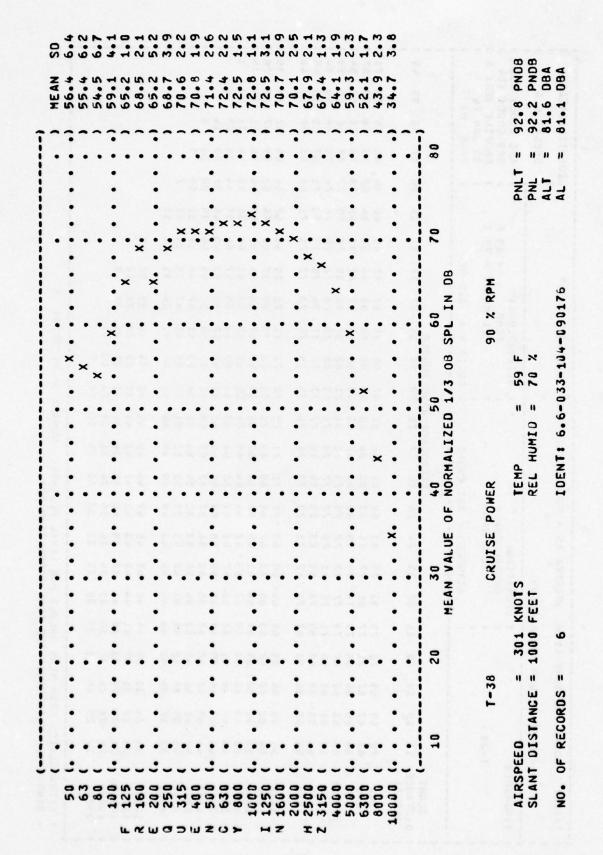
	GROUND-TO-GROUND P	ROPAGATION					•	OMEGA 6.6
AIRCRAFT: T-38		(OPERATION: (TAKEOFF (100 %	POWER RPM	222	METEOROLOGY: TEMP REL HU	MID = 7	9 F	C CODE S CODE DFILE
		(AIRSPEE	D = 300 KNOTS	118	DELTA N =	0.0 08		US JAN 76 PAGE M2
SLANT DISTANCE	AL	ALT**	PNL	PNLT**		SEL	SELT**	EPNL**
(FEET)	(084)	(08A)	(PN 08)	(PNDB)		(08)	(08)	(EPNDB)
200	110.1	110.6	123.3	123.9			111.0	113.5
250	107.8	108.4	121.0	121.6			109.8	112.2
315	105.6	106.2	118.6	119.2		107.6	108.5	110.8
90*	103.2	103.8	116.2	116.8		106.3	107.2	109.4
200	100.9	101.5	113.6	114.2		. 40	105.8	107.8
3		99.0	0	111.5		03.	104.4	106.1
800	6.36	96.5	108.1	108.7		105.0	102.9	104.3
1900	93,3	93.9	105.2	105.8		100.3	101.2	102.4
1250	9006	91.1	102.1	102.7		98.	99.6	100.3
1600	87.7	88.3	98.7	99.3		96.8	7.76	6.76
2000	84.7	85.3	95.1	95.7		8.46	95.7	95.2
2500	81.6	82.2	91.1	91.7		95.6	93.5	92.3
3150	78.2	78.8	86.9	87.5		90.2	91.2	89.1
0004	24.5	75.0	82.2	82.7		9.78	88.3	85.2
2000	70.4	70.7	77.2	77.5		4.48	85.0	81.0
33	69.69	66.1	71.8	72.0		81.0	81.3	1.97
9000	61.5	61.6	67.0	67.1		77.5	7.77	72.5
10000	56.7	56.7	61.9	61.9		73.7	73.7	68.2
12500	51.4	51.4	999	56.4		69.5	69.5	63.7
16000	45.7	45.7	50.5	50.2		2.49	2.49	58.5
20002	39.4	39.4	42.7	42.7		29.4	59.4	52.0

** EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	1-38 100 % RPM	- 3	F POWER				*		*	
	TEMP = 59		REL HUMID =	70 X	•	•	×	•	×	
		DRDS:	090176-A		•	•	A +	•		
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×						•			PNL = PNL	
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)	6.4	7.0			9					

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TEMP = 59 F REL HUMID = 70 % DELTA N = 0.0 0B NO. OF RECORDS: 6 IDENT: 6.6-033-103-090176-A SX SX SX SX SX SX SX SX SX S	315 (AIR	1-30 100 % RPM AIRSPEED =	300	FOMER					•		ST E
NO. OF RECORDS: 6 IDENT: 6.6-033-103-090176-A SX	-	. TE	4P = 59	:			•					ST.E
SX S	004	NO	NT 8 6.6	ORDS: 6 -033-103-	190176-	-	•		•	•		ST E.
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	9000		•	1. 34		•				. STE		•
SX S	1000	:	:	:	:	:	•	•	:	. STE .	•	•
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	2000	:	•		:	•	E.	ST.	:	•	•	•
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AIRCRAFT					J.,	OPERA	RATIONS	POWE	E.R.				HE	ETEOR	120		" (59 F			A/C OPS	CODE	8 10	m 4
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SLANT										m G	CEN	A P	0	111	œ									
DISTANCE (FEET)	17	18	19	50	21	22	23	54	52	9	27	88	53	30	31	32	33	34	35	36	37	38	36	40
200	20	69	69	73	62	83				85	86			80	88	87		85	98		-		73	~
250	99	29	29	11	11	81	11	81	83	83	84	85	85	86	98	85	94	83	94	82	82	17	20	19
315	99	9	9	69	22	62				81	82			*	94	82		81	81		9		29	9
400	19	63	63	29	73	11				62	80			2	82	80		18	62		m		63	S
200	62	61	61	65	7.1	22				22	28			0	5	78		92	92		0		26	Š.
630	99	29	28	63	69	73				22	91			2	11	10		73	73		7		22	t
800	28	25	26	91	29	7.1				73	14			S	52	73		11	7		m		20	4
1000	96	25	24	66	69	>69	65	69	7.1		71		72	73	22	7.1	10	99	29	3	6		*	m
1250	24	53	25	25	63	99	63	29	89	69	69	20	2.0	20	20	89	29	69	94	9	99	14	37	~
1600	55	51	20	25	61	49	61	69	99		29		99	68	29	69	79	9	9	9	0		53	15
2000	20	64	48	53	66	95	66	62	79		69		69	65	69	29	61	28	96		t		19	•
2500	48	147	94	51	25	09	25	09	62		62		63	63	29	29	25	24	51	4	80		9	
3150	94	45	12	64	25	28	22	28	60		09		9	09	28	25	53	64	94	2		14		
0004	44	43	74	14	53	26	25	96	25		25		22	28	22	25	64	44	39	6	0	2		
2000	45	41	0+	42	20	24	20	53	22		24		24	53	51	24	115	38	31	19	6			
6300	7	33	38	74	48	21	4 8	51	25		25		20	64	94	45	38	30	25	~				
8000	39	37	36	7	40	6	42	4 8	64		84		0 +	t t	41	36	31	22	11					
10000	36	35	33	38	#	9+	43	45		45	45		+2	5	36	53	22	11						
12500	34	32	31	35	41	*	40	43	43	45	41	0+	37	33	53	21								
16060	31	36	53	33	38	41	37	39		38	36		31	1	21	11	0							
20000	53	58	56	30	36	38	34	36		34	31		54	0	11									
25000	22	30	21.	20	11	32	40	20		00	20		7 7	d										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS! 6

* BAND WHICH DETERMINES THE TONE CORRECTION (C).

AIRCRAFT: T-38 T-38 SLANT DISTANCE AL (DBA) 200 97.2 250 95.0 315 92.8 400 90.6 500 88.3 630 88.3	N 30 GE N 1	OWER					
	S S S S S S S S S S S S S S S S S S S		-	REIEUKULUGYE TEMP REL HU	OLOGY: TEMP = REL HUMIO =	59 F 1	A/C CODE: 033 OPS CODE: 104 PROFILE VER: A
A NC	ALT** (08A) 97.7 95.6 93.4	= 360 KNOTS	TS)	DELTA N =	0.0 08		PAGE I3
	(DBA) 97.7 95.6 93.4	PNL	PNLT		SEL		
	97.7 95.6 93.4	(PN DB)	(PN08)		(08)	(08)	(EPNOB)
	95.6 93.4 91.1	109.9	110.4		95.8	96	6.86
	93.4	107.6	108.2		9.46		7.76
	91.1	105.3	105.8		93.4		96.3
		102.9	103.5		92.2		95.0
	88.9	100.4	101.0		6.06	91.9	93.5
	86.5	97.8	98.4		89.6		91.9
	84.1	95.1	92.6		88.2		90.1
	91.6	92.2	92.8		86.7	7.78	66.3
1250 78.5	79.1	89.3	89.8		85.1		
	76.4	86.2	86.8		83.5		84.3
	73.6	83.0	83.6		81.7	82.7	82.1
	70.8	19.6	80.2		79.6	80.	7.67
	2.19	76.0	76.5		77.6	78.	0.77
	4.49	72.2	72.7		75.6	76.	74.1
	61.0	9.89	69.0		73.3	73.	71.3
6306 57.1	57.3	6.49	65,1		7.0.7	71.	68.3
8000 53.4	53.5	61.0	61.1		68.	68.	65.3
10000	7.64	56.8	56.8		65.0	65.	61.9
12500 45.3	45.3	52.3	52.3		61.8	1 61.8	58.4
16000 40.8	8.04	47.0	47.0		58.4	58.	54.1
20000 36.2	36.2	41.5	41.5		54.8	54.	9.64
	31.4	35.2	35.2		51.0	51.	44.3

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

					**		,
300	KNOTS			•		•	×
3 F	~	70 %	•	•	× •	•	
NO OF PECOPOS	98				*	>	
.6-033-	2	A					
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	GROU	1-07	GROUND-TO-GROUND	ONNO	PROP	AGA	AGATION														OMEGA 6.6	A 6	9	:
AIRCRAFT :	1-38					OPER CF	CRUISE 90 % AIRSPEE	5 0	. ~ 2	N KNOT	STO		20000	1ETEOROLOGY: TEMP REL HU	TEMP REL	HUMI 0.0	= 0	59 F			A/C OPS PROF	CODE CODE ILE	VER 5	33 04 • A
SLANT DISTANCE (FEET)	17	18	61	20	21	22	23	3, 7,	25	FREG 26	QUENCY 27 20		AND 2	NUMBE	8 E	32	33	34	35	36	37	3.6	66	3
200	65	49	49	89	17	78	4.2	7.8	80	80	81	82		83	83	82	82	80	81	6	9	-	89	9
250	63	62	62	99	72	92	72	92	28	28	62	80	80	81	81	80	62	18	62	11	73	69	65	62
315	61	9	09	49	20	14.	02	12	16	92	11	7.8		61	62	11	11	92	92	t	-	9	62	S
004	66	28	28	62	68	7.1	68	72	14	42	52	92		77	11	15	15	73	74	2	80	m	28	3
200	25	26	26	09	99	69	99	20	72	72	73	42		15	47	73	73	7.1	7.1	6	2	0	24	4
630	25	24	53	28	49	99	63	29	20	20	7.1	72		72	72	71	20	68	68	9	2	9	20	Ŧ
800	23	25	21	96	61	49	9	49	68	89	69	7.0		10	10	68	68	99	99	m	80	2	45	m
1000	51	20	64	53	58	61	25		65	99	99	29	29	68	29	99	65	63	62	6		147	39	3
1250	64	48	94	20	55	58	54		62	49	9	65	65	65	65	63	95	9	66	2		75	32	21
1600	14	45	43	94	51	24	51	55	29	61	62	63	63	63	62	09	66	25	55	51	45	36	54	7
2000	**	42	39	45	1.1	20	14		99	65	09	09	09	9	09	25	96	53	51	2		28	14	
2500	41	38	35	38	43	94	43		55	52	25	58	58	58	25	24	55	64	94	6		20	m	
3150	37	33	31	33	38	41	38		47	51	24	55	52	52	53	20	48	11	41	2		6		
0004	32	28	52	58	33	35	32		45	24	20	55	55	51	20	14	**	39	34	+	15			
2000	27	54	20	23	28	31	27		36	41	94	48	8 +	48	94	45	39	33	92	*	4			
6300	22	19	16	18	23	56	22		30	36	42	43	11	t t	41	37	33	25	17	2				
8000	20	17	14	16	21	23	50		27	33	38	40	4.0	39	36	31	56	17	9					
10000	18	15	11	14	19	21	17			53	35	36		34	31		11	9						
12500	16	12	6	::	16	18	14			56	31	32		28	54	16	~							
16000	13	10	~	6	13	16	11	14	18	22	56	27	25	22	16									
20000	11	80	+	9	11	13	80			18	21	21		14	9									
25000	6	2	2	4	«	σ	Ľ			13	4	7		4										

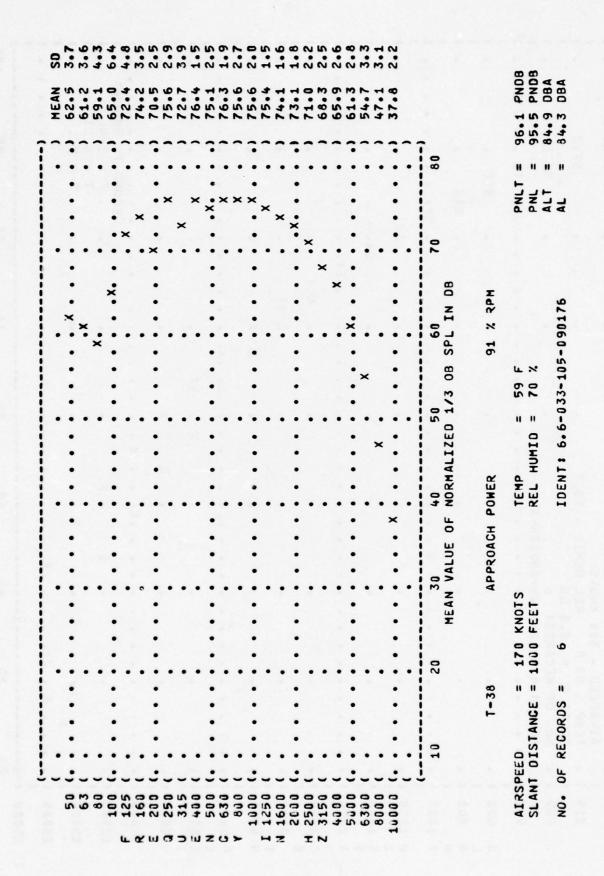
* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: < BAND WHICH DETERMINES THE TONE CORRECTION (C).

GROUND-T	GROUND-TO-GROUND P	ROPAGATION					OMEGA 6.6
AIRCRAFT: T-38		COPERATIONS CRUISE	POWE R RPM		METEOROLOGY: TEMP = 5 REL HUMID = 7	9 F 7	A/C CODE: 033 OPS CODE: 104 PROFILE VER: A
		(AIRSPEE	D = 300 KNOTS	TS)	DELTA N = 0.0 DB		PAGE M3
SLANT DISTANCE	AL	ALT**	PNL	PNLT**	SEL	SELT**	EPNL **
(FEET)	(034)	(08A)	(PNDB)	(PN08)	(00)	(08)	(EPNOB)
200	92.2	92.7	104.8	105.4	8.06	91.7	93.8
250	0.06	90.5	102.6	103.1	5	90.6	95.6
315	87.8	68.3	100.3	100.8	8.	4.68	91.3
004	85.6	86.1	97.8	98.4	1.	88.1	6.68
200	83.3	83.8	95.3	95.8	6.58	86.8	88.3
636		81.5	92.7	93.2	;	85.5	86.7
900	78.6	79.1	89.9	+ •06	3	84.1	6.48
1000	76.1	76.6	86.9	4.18	81.7	82.6	82.9
1250	73.5	74.0	83.8	84.3	80.1	81.0	80.8
1600	70.8	71.3	90.8	81.2	78.4	79.3	78.7
2000	68.0	68.5	77.2	77.7	76.5	. 77.5	76.2
2500	6.49	65.4	73.4	74.0	74.5	75.5	73.4
3150	61.7	62.2	69.5	2.69	72.3	73.2	70.2
0004	58.1	58.5	64.8	65.2	63.7	70.5	9.99
00	54.1	54.4	0	60.3	1.99	67.3	62.6
6300	1.64	6.64	+	55.0	63.3	63.7	58.2
9000	45.4	45.6	;	50.1	0.09	2.09	24.2
10000	40.8	40.8	44.1	44.1	56.4	56.4	49.1
12500	35.7	35.7	37.7	37.7	52.3	52.3	43.8
16000	30.1	30.1	30.3	30.3	47.7	47.7	37.4
20000	24.0	24.0	20.4	50.4	42.6	45.6	28.5
******				-			1

** EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

F REL HUMID = 70 %	.:.	T	300 KNOTS	1		•	A+	× •
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				:	: : :	:	•	= AL

CRUISE POWER O KNOTS O CB S: 6 3-104-090176-A E X E X X X X X X X X X X
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TABLEI	AIR-	10-6	SOUND PRESSURE L AIR-TO-GROUND PR	RE LE	OPA	GATION	TION	A S	Z .	FUNCTION		OF SL	SLANI	DISI	DISTANCE	(08)					DENTI	5	A110 6.6	ž
A I RCRAFT	1-38					OPERA AI	ATIO PRO 91	ACH RED		A D	210		20000	<u> </u>	TEOROLOGY STEMP REL HU	HUMI B 0.0	# 0 D	20 20	E ×	7	PROFI	CODE 1 CODE 1 FILE V JAN 76		033 105 R: A
SLANT DISTANCE (FEET)	5	2	61	20	72	22	23	34	25	FREQ 26	UE 27	NCY B	BAND 29	NCM 30	31	32	8	ň	35	g R	37	898	39	9
250	7222	22.23	2283	27 27	2 2 2 3	8 8 8 8	68 8 3 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 8 8 8	9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	91 89 89	98 8 9	91 89 89	918	91 89	91 83	0.88	90 85	8 8 8 8	884	9 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	83	27 26 27 28 27 28 27 28 28 28 28 28 28 28 28 28 28 28 28 28	2223	74 70 90 90 90 90 90 90 90 90 90 90 90 90 90
900 900 900	9 9 9	63	2832	22.5	222	1389	72 22		122	83	73	83		82	82	73	81 76 76	1004	22.3	979	69	63	538	52
1600 1250 1600 2000 2500	20000	55 55 55 55 55 55 55 55 55 55 55 55 55	52 53 54 54	63 61 59	222	12 22 20 20 20 20 20 20 20 20 20 20 20 20	68 66 64 64		73 68 68 66 66	24 24 20 20 20 20 20 20 20 20 20 20 20 20 20	77 73 73 68 68	74 25 63 63 63		76 71 73 68 65	73 73 68 65 65	74 74 69 69 66 68 68 68 68 68 68 68 68 68 68 68 68	73	58 65 61 61	69 62 72 65 65 65 65 65 65 65 65 65 65 65 65 65	5070	60 40 40 40 40	52 43 36 74 74 74 75	1324	238
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* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS! 6
 * BAND WHICH DETERMINES THE TONE CORRECTION (C).

AIR-TO-G	AIR-TO-GROUND PROP	AGATION					•	OMEGA 6.6
A IRCRAFT t		COPERATIONS CAPPROACH POWER CAPPROACH POWER	4 POWER		METEOROLOGYS TEMP REL HU	" "	59 F)	A/C CODE: 033 OPS CODE: 105 PROFILE VER: A
		(AIRSPEED) = 170 KNOTS	TS)	DELTA N =	0.0		
SLANT DISTANCE	A.	ALT**	PNL	PNLT**		SEL	SELT**	EPNL **
(ree i)	(UBA)	(084)	(80Nd)	(FN08)		(08)	(80)	(EPNOB)
200	100.1	100.8	112.5	113.2		100.3	101.3	103.4
250	98.0	98.7	110.3	111.0		99.2	1001	102.2
315	95.8	96.5	108.0	108.7		98.0	99.0	101.0
000	93.6	94.3	105.7	106.4		96.8	97.7	9.66
200	91.4	92.0	103.3	103.9		32.5	96.5	98.2
800	86.7	4.78	98.5	98.8		92.9	93.8	95.1
1000	2 78	96.9	u 0	1		•	7 00	7 40
1000	4 4	82.4	2000	200		0 0 0	900	4 00
1600	79.2	79.8	7.68	90.3		88.3	89.3	9.68
2000	76.5	77.1	86.6	87.2		86.6	87.6	87.5
2500	73.6	74.3	83.2	83.9		84.8	85.8	85.1
3150	70.7	71.3	6.62	80.5		82.9	83.8	85.8
0004	9.29	68.1	7.97	77.2		80.8	81.5	4.08
2000	4.49	64.8	73.3	73.7		78.5	79.1	77.8
6300		61.2	2.69	70.0		76.1	76.5	75.1
8000	57.3	57.5	66.0	2 • 99		73.5	73.7	72.2
10000	53.6	53.6	62.1	62.1		7.07	70.7	69.0
12500	9.64	9.64	57.8	57.8		67.8	67.9	65.8
16000	42.4	45.4	53.2	53.2		9.49	9.49	62.2
20000		41.0	47.9	6.24		61.2	61.2	57.9

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

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-	170	RECORDS:	33-	•			•			•				•			•			•	
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PROACH	KNOTS REL HUMID	_		•			•			•				•			•			•	E
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HUMP SH MORPHUHE HZPLD

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	GROU	I-ON	GROUND-TO-GROUND	ONNO	PRO	PAG	ATION														OMEG	9	9.
AIRCRAFT	1 T-38					OPER	RATION: APPROACE	- °	POWER				¥	ETEOR	TEMP REL	HUMI	" "	59 F			A/C OPS PROF	300E	1 03 1 10 VER
			-			A	IRSP	EEO :	= 170	KNOT	TS		0.0	ELTA	" Z	0.0	90				38	7	
SLANT DISTANCE (FEET)	11	18	19	50	12	22	23	54	25	FREQ 26	QUENCY 27 24	28 3A	0 K S	NUMBE 30	31	32	33	34	35	36	37	99	39
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400	9	49	62	68	75	11	73		91	96	62	80	62	62	80	62	7.8	92		73			51
200	63	62	9	99	73	52	11		14	18	16	18	11	11	11	91	92	14		7.1	1		25
630	61	09	28	40	7.1	72	68		22	92	42	92	15	15	52	42	73	7.1		68			53
800	29	28	96	62	68	69	99		20	74	72	73	73	73	73	72	7.1	69		49	0		80
1000	25	96	24	66	9	99	63	68	68	77	7.0	11	11	7.1	20	69	89	99		51	9		2+
1250	25	24	51	96	62	63	60	99	65	69	99	69	89	68	68	99	65	63		25	2	11	35
1660	53	51	48	25	29	9	20	62	61	29	99	29	99	99	65	49	62	09		25	1		27
2000	20	14	*	48	22	26	25	28	58	92	63	19	63	63	63	61	29	96		14	1		81
2500	47	11	0+	**	20	25	48	53	24	61	61	29	61	99	60	25	52	25		41	2	22	9
3150	43	39	35	39	94	14	43	1 8	64	25	28	29	58	21	99	24	51	14		34	22	12	
0004	38	34	30	34	0 4	41	37	t 2	+	25	24	26	25	24	53	20	14	24		56	17		
2000	33	53	52	53	35	36	35	3	38	14	20	25	51	51	64	5	45	36	27	16	9		
6300	28	52	21	42	30	31	27	33	35	11	42	14	14	14	42	0 +	36	62		t			
8:00	56	23	18	22	28	67	52	9	30	38	45	‡ ‡	43	45	t-	34	53	20	_				
10000	54	50	16	50	92	27	25	22	27	35	39	04	39	37	34	27	21	10					
12500	22	18	14	17	23	54	20	54	23	32	35	36	34	31	27	19	11						
16600	19	16	11	15	21	21	17	21	20	28	30	31	28	52	19	6							
20000	17	14	6	12	18	18	13	18	16	23	52	52	21	17	6								
25000										4													

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6

* BAND WHICH DETERMINES THE TONE CORRECTION (C).

-NOONS	GROUND-TO-GROUND P	PROPAGATION					OMEGA 6.6
AIRCRAFT:		COPERATIONS CAPPROACH	POWER RPH		METEOROLOGY: TEMP REL HIMTO	= 59 F	A/C CODE: 033 OPS CODE: 105 PROFT! F VER:
		AIRSPEED) = 170 KNOTS) ts	0		09 JAN 76 PAGE M4
SLANT DISTANCE	¥	ALT**	PNL	PNLT**	SE	SELT**	EPNL**
(FEET)	(084)	(DBA)	(PN 08)	(PNDB)	(08)		3)
200	95.1	95.7	407.5	108.0	95.	3 96.	98.3
250	93.0	93.5	105.3	105.8	94.	2 95.	97.1
315	90.8	91.3	103.0	103.5	93.	0 93.	95.8
001	88.6	89.1	100.7	101.2	91.	95.6	4.46
200	96.4	86.9	98.5	98.7	06	5 91.	93.0
630	•	9.40	95.6	2.96	88	2 90.	91.4
900	81.7	82.2	92.9	93.5	87,	88.	1.68
1000	79.2	79.7	90.1	90.6	86.	. 87.	87.9
1250	76.7	77.2	87.1	87.7	94.	8 85.	85.9
1600	74.0	74.5	84.0	84.5	83.	2 84.	83.8
2000	71.3	71.8	9008	81.1	81,	4 82.	81.4
2500	68.3	68.8	76.8	77.3	79.	. 80.	78.6
3150	65.0	9.69	72.8	73.3	77.	.2 78.0	75.6
0004	61.4	61.9	68.3	68.8	74.	5 75.	72.0
2000	57.4	57.7	63.6	63.9	71.	5 72.	68.0
6300		53.2	58.5	58.7	68	2 68.	63.8
8700	48.8	6.84	24.0	54.1	.65.	9 65.	60.2
10000	44.3	44.3	48.8	48.8	61.	4 61.	55.8
12500	39.3	39.3	45.8	45.8	57.	5 57.	2005
16000	33.8	33.8	35.9	35.9	53.	0 53.	6.44
20000	27.9	27.9	27.8	27.8	.84	1 48.1	37.8
20000							

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

250 (.	91 % R	17.	2		•	. A+	
315 (.	TEMP = 59 F	= 170 KNO13 3 F REL HUMID = 0.0 08	110 = 70 %		•	×.	•
.) 004	NO. OF RE	RECORDS: 6 6.6-033-105-090	090176-A	•	•	*	×
.) 005					•	. A+	· · · · · ·
630 (•	•	•	•	A+	×
800 6	•	•	•	•	*	*	•
1000 (.				•	A+ .		• • • • • •
1250 (.		٠	•	٠	×	•	٠
1600 (.	•	٠	٠	. A+	•		•
2000 (.				A+ .	×		
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16600 (.		· · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •	•	:		•
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AIRCRAFT AIRCRAFT											AIRCRAFT
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AIRCRAFT AIRCRAFT	≯ 8		SNOI	2.			RE PROVIDED:	REQUENCY ANCE FROM SOUF	EL SOUND LEVEL 250 FEET FROM SOURCE	E A A B O P O P O P O P O P O P O P O P O P O	AIRCRAFT
T-505 T-304 T-388	PRODUCED ON THE GROUND BY	A AIRCRAFT	DURING GROUND RUN-UP OPERATIONS	TEST 74-004-029 AIRCRAFT CODE: 033 PROFILE VERSION: A			THE FOLLOWING DATA ARE PROVIDED	ORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY NORMALIZED SPL AT 250 FEET OISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE	E LEV	L A I R B A B C C C C C C C C C C C C C C C C C	1-388-1
AIRCRAFT AIRCRAFT	NOISE PROD	T-38A	DURING GRO	TEST AIRCR PROFI COMPUTE		RPM	SETTING,	MALIZED DATA AS A FUNCTION NORMALIZED SPL AT 250 FEET TEVELS AS A FUNCTION OF	ENCELVED NOISE LEVEL TONE-TONE-CORRECTED, PEREIVED NOISE A-WEIGHTED CVERLE SOUND LEVEL TONE-CORRECTED, A-WEIGHTED OVER E LEVELS AS A FUNCTION OF ANGLE	E E S S I S S I S S I S S I S S I S S I S S I	AIRCRAFT
1-100 1-381 1-384					POWER SETTING	48% RPM	FOR EACH POWER	NORMALIZED DATA NORMALIZED NOISE LEVELS AS	FERCEIVED TONE-CORRE A-WEIGHTED TONE-CORRE NOISE LEVELS A:	A I O O O O O O O O O O O O O O O O O O	1-364
AIRCRAFT AIRCRAFT										4 B	AIRCRAFT
1-36A											T-38A T-38A

	NUKMALIZED 1/3 OCTAVE DISTANCE =	BAND 250	9 4	0	SURE LEVEL	9	6									MEGA EST 7	-00	10NE	
OISE SOU T-38A ENG. J8 GROUND	/SUBJEC AIRCRAF E-5A UP	2.		006	RATION DLE, 4	N N	R P I NE			AETE BAE BAE TE	OROLOGY:	671 SS = 2 10 = -3.	9.92	N N N H	7	RUN 01 AIRCRAFT OPERATION PROFILE V 17 FEB 76	_ w	CODE 0 CODE 0 RSION	033 02013 A
BAND CENTER FREQ (HZ)	•	3	20	30	6,	50	69	A D Z	NGLE (DEGRE 90	ES)	110	120	130	140	150	160	170	180
56	29	29	29	69	7.0	2.0	69	7.0	69	7.1	72	71	6.8	72	72	71	69	99	69
63	65	65	29	99	69	69	29	89	69	69	20	2	202	17	72	2	65	249	29
96	10	10		69	65	69	29	99	99	99	6.8	29	69	89	20	89	63	62	61
100	99	65		99	63	29	29	29	99	90	69	20	7.0	72	73	20	63	60	9
125	99	68		69	69	69	69	7.0	70	7.1	73	7.1	71	14	92	73	61	584	29
160	20	72		73	73	73	15	52	15	92	11	16	14	92	11	22	63	264	28
526	69	99	69	20	69	89	22	17	7.	73	14	7.1	73	72	73	72	614	254	574
550	61	63		63	62	62	99	29	99	68	69	68	70	69	29	69	•09	534	25
315	49	29		99	2.0	60	69	69	7.0	72	7.1	7.1	72	7.1	99	69	29	514	24
904	63	68	99	69	20	29	29	69	22	72	72	73	72	72	7.1	69	65	64	25
200	†9	99	29	99	0.7	62	9	65	99	20	7.1	72	72	7.1	69	19	96	794	48
630	61	61	63	95	60	25	6.0	60	09	63	99	20	20	69	62	61	24	434	47
900	96	63	29	9	61	09	62	09	61	61	62	99	69	99	63	62	26	0+	45
1000	60	29	29	29	59	29	58	25	96	58	61	63	99	19	66	66	53	39	42
1250	61	99	29	62	61	61	58	96	20	25	58	61	19	9	65	61	53	41	45
1600	69	99	99	99	29	99	69	61	66	58	66	9	69	29	65	89	61	20	53
2000	29	69	99	68	69	99	69	66	96	55	26	61	63	69	49	29	69	20	51
2500	63	63	99	63	69	61	99	55	53	25	24	59	63	29	99	99	61	51	55
3150	63	†9	69	61	62	61	58	99	55	51	14	25	61	69	63	69	58	47	47
4030	81	81		11	92	29	73	7.1	99	29	61	89	49	69	20	77	20	9	57
9100	29	68		69	99	63	99	40	58	52	24	66	61	69	49	9	09	20	64
6300	90	99		69	99	69	63	61	25	52	53	66	65	49	62	62	58	48	48
8000	11	78	62	19	62	73	73	72	69	19	63	29	63	7.1	99	69	79	24	54
10000	69	49		68	68	61	63	61	22	53	25	25	96	58	25	58	53	43	45
DVFRALL	70		,	,													,	,	-

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

		AS A FUNCTION OF ANGL	N OF	w	AND OIS	UISTANCE	FROM S	SOURCE								ONEGA	OMEGA 8.2 TEST 74-004-029	4-029	
NOISE SOU	E SOURCE/SUBJE T-38A AIRC ENG. J85-GE-5A GROUND RUNUP	SOURCE/SUBJECT 1 38A AIRCRAFT 16. J85-GE-5A COUND RUNUP	-		OPER	OPERATIONS IDLE:	ATION: IDLE, 48% RPM SINGLE ENGINE				METEOROLOGY: TEMP BAR PRES REL HUMI	NOM	= 59 =29.92 = 79	9 F 2 IN HG		AIRCOPERCION DE PROPERCION DE	KUN 01 AIRCRATION CODE OPERATION CODE PROFILE VERSION 17 FEB 76 PAGE 01	CODE	033 02913
DISTANCE	-	97	20	30	3	2	99	7.0	ANGLE 80		OEGREES)	110	120	130	140	150	160	170	180
200	131.0	101.3	100.3	99.8			96.2	95.0	4.16	90.3	90.4	94.0	93.3	96 . 1	1.56	99.3	92.1	82.6	81.6
250	98.6	98.9	30.4				93.9	95.6	89.0	88.0	88. 4	91.7	91.0	93.8	93.4	6.96	1.68	80.2	79.2
315	90.1		95.9				91.4	90.1	90.0	85.6	85.7	89.3	88.6	91.4	91.0	94.5	87.3	77.8	76.8
200	93.5		93.3				20.00	67.5	94.0	43.1	83.4	86.8	86.1	88.9	80.0	92.0	84.7	75.2	74.5
930	87.8	91.1	87.6			80.8	83.1	0 4 6 0	78.5	78.0	78.5	81.3	80.9	83.4	83.0	86.4	79.1	4.27	68.9
800	9.49		4	83.4	83.6		80.0	78.8	75.5	15.4	75.9	78.4	78.3	80.4	79.9	83.3	76.0	66.1	65.3
0000							7 26	7.		200									3
1250	77.4		77.7				73.1	71.7	68.6	69.7	70.4	72.1	72.6	73.0	73.1	76.4	68.0	58.7	S.A.
1600	73.2	73.5	73.0	72.0	71.7	67.0	68.8	67.6	65.	65.7	67.3	69.1	9.69	70.5	69.3	72.3	64.7	54.1	53.6
2000	4.09		68.4				64.4	63.1	62.0	63.4	0.49	65.8	66.3	67.0	65.7	67.8	60.1	48.8	48.8
2500	63.1		63.0					50.5	57.7	59.1	59.8	61.7	62.7	65.8	61.5	62.7	24.7	41.8	43.1
3150	57.0		57.1	26				53.2	52.7	24.4	55.4	57.3	58.5	58.5	9.99	57.3	49.1	33.3	35.9
4000	51.0		51.5	2		49.1		47.4	47.1	49.3	9005	55.5	53.7	53.4	51.5	55.2	42.7	23.7	27.1
2000	44.6		44.0	4	45.4			40.7	40.0	43.4	44.9	47.1	48.4	47.6	45.6	45.8	35.7	11.8	15.6
6300	30.7		36.5	35	37.5			32.9	33.2	36.4	38.3	+0.7	42.1	41.0	38.6	37.6	26.4		4.1
8000	28.6		30.1	53	31.3			50.5	27.0	31.5	33.0	35.6	37.2	36.0	32.4	9.62	15.2		
10000	15.6		21.2	19.	21.8	12.4		18.2	19.4	26.6	27.5	29.9	31.3	29.0	25.7	19.6	6.8		
12500	3.2	9.7	11.1	11	13.3		7.9	10.4	11.6	18.0	20.6	23.9	24.7	25.2	17.4	8.2			
16000			1.0		4.8			5.6	3.9	8.7	10.4	14.6	14.8	10.8	8.1				
20000											• 5	5.3	6.4						
25000																			

518418 1 444	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	30 103.8 111.4 98.9 93.5 90.6	AND UIST OF RAIL OF STATE OF S	ERATION: 1 PULSIANCE T IDLE: 48 SINGLE E E E E E E E E E E E E E E E E E E	# 48% RPM	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ANGLE 8 8 8 995 1 995 7 996 3 85 1	990 900 900 900 900 900 900 900 900 900	HETEOROLOGY TEMP BAR PRE BAR PRE REL HUM 110 110 110 110 110 110 110 110 110 11	PRESS PRESS HUMIOS 110 110 97.2 992.4	12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N 1 % 1 % 1 % 1 % 1 % 1 % 1 % 1 % 1 % 1	16 10 10 10 10 10 10 10 10 10 10 10 10 10	150 103.4 1013.4 1013.4 1013.4 1013.4 1013.4 1013.4 1013.4	A REST 74-004 A RUN 01 T A RUN 01 T O PERATION C PROFILE VER 17 FEB 76 17 FEB 76 18 76 19 95 8 8 10 93 44 8 8 6 90 9 9 8 8 6 90 9 9 8 8 6 90 9 9 8 8 6 90 9 8	000E 0 000E 0 000E 0 000E 0 000E 0	180 180 180 180 79.6
100 100 100 100 100 100 100 100 100 100	AFT 100 100 100 100 100 100 100 100 100 100	30 30 1103.8 1011.4 98.9 98.9 93.5 90.6	103.0 103.0 103.0 98.1 95.5 95.7 86.6	L L L L L L L L L L L L L L L L L L L		901011	į w	90 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TEEN TEEN TEEN TEEN TEEN TEEN TEEN TEEN	PRESS PRESS PRESS PRESS 97.2 97.2 97.8 97.8 87.3	111101 4 66 66	N X X X X X X X X X X X X X X X X X X X	140 97.9 93.1 90.6	150 150 150 150 150 101:0	16 FEEF 76 10 10 10 10 10 10 10 10 10 10 10 10 10	S100 000 000 000 000 000 000 000 000 000	233 2013) 180) 180) 79.6)
10 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 100 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30 30 103.8 101.4 98.9 96.3 93.5	103.0 100.6 98.1 95.5 92.7 89.8 86.6	26 E E E E E E E E E E E E E E E E E E E		901035	į w		3AR RELTA N AGES) 100 93.2 90.9 90.9	PRESS HUMID 110 97.2 94.8 92.4 89.9	1 10 1 4 66 88	N N N N N N N N N N N N N N N N N N N	140 97.9 95.5 93.1 90.6	150 150 150 150 98.6 96.0	FILE 76 150 150 150 150 150 150 150 150 150 150	SION 70 70 11.7 19.11	180 180 17.0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 10 10 10 10 10 10 10 10 10 10 10 10 1	30 103.8 1011.4 98.9 96.3 93.5				901035	i w		46 E S S S S S S S S S S S S S S S S S S	97.2 94.8 92.4 89.9	12.0 94.3 92.0 89.6	130 97.7 95.4 93.0	140 97.9 95.5 93.1 90.6	150 101.0 98.6 96.0	160 995 995 995 995 995 995 995	7 0 7 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	180 180 184.4 17.0 17.0
1106 1106 1106 1106 1106 1106 1106 1106	105.0 100.0	103.8 101.4 98.9 96.3 93.5				901011		93.5	886.00	97.2 94.8 92.4 89.9	94.3 92.0 89.6 87.1	97.7	97.9 95.5 93.1 90.6 87.9	103.4 101.0 98.6 96.0	00000000000000000000000000000000000000		84.4) 82.0) 79.6)
101. 101. 901. 903. 903. 903. 903. 903.	0 162.6 5 104.1 2 97.5 2 94.8	98.9 98.9 93.5 90.6				N L N J Y		91.1 88.7 85.2 83.7	88.0 86.2 83.8	94.8 92.4 89.9	92.0 89.6 87.1	903.0	95.5 93.1 90.6 87.9	101.0 98.6 96.0 93.3	93. 90. 90. 95. 95.		82.0) 79.6)
8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	94.9	96.3				. ~ + 5		85.2	83.2	89.9	87.1	90.5	90.6	96.0	88.4		77.0
96.0 93.1 89.9		93.5				4 15		83.7	83.8	87.3			87.9	93.3	85.6		
93.1 89.9		90.6				2		A1.1			24.0	01.0	1				74.3)
6 6									81.5	84.5	81.8	85.0	85.1	6.06	82.7		71.3)
86.4		87.4				+		78.5	78.7	81.5	2.62	82.0	82.1	4.78	9.62		68.1)
		83.				0		15.7	16.0	78.3	76.5	78.8	78.8	84.1	76.2		64.6
95.6	_	80.				2		72.9	73.1	75.3	73.6	75.5	75.3	80.4	72.5		60.8)
1600 78.4 78.6	.6 77.2		75.4	69.2	71.7	71.3	69.2	8.60	70.1	72.2	70.5	72.1	71.5	76.4	68.4	58.1	56.4)
68.3		66.				. «		200	62.7	6.49	63.7	900	63.6	66.8	58.3		6.10
64.2		60				80		57.5	58.5	60.5	59.4	59.8	58.7	61.4	52.7		38.7)
55.5		24.						51.8	52.9	55.0	54.5	54.7	53.2	55.4	45.7		29.4)
		40.				6		+5.3	9.94	49.0	48.9	48.6	46.8	48.3	37.9		17.3)
6300 38.8 38.1		37.	39.0	9		m		37.7	39.4	41.9	45.5	41.5	39.4	39.5	27.8		5.2)
8uu0 29.0 30.	•	30.	32.0			2		32.2	33.6	36.3	37.4	36.3	32.8	30.4	15.9		-
15.6 2		19.		12.4	17.5	2	19.4		27.5	59.9	31.3	29.0	25.7	19.6	6.8		-
3.2	9.7 11.1	11.9	13.3			10.4	11.6	18.0	20.6	23.9	24.7	25.2	17.4	8.2			-
16000	1.0	;	4.8			9	3.9		10.4	14.5	14.8	10.8	8.1				•
20000									• 5	5.3	4.9						•

TEMPORE TEMP		AS A F	A FUNCTION	90	ANGLE A	AND DISTANCE		FROM S	SOURCE) OMEGA	74-00	A 8.2 74-004-029	
86.6 86.2 85.7 85.2 84.6 79.7 89.0 79.3 75.8 76.3 70.9 79.1 79.8 81.1 79.7 83.1 76.2 66.3 83.9 89.9 89.9 89.9 89.9 89.9 89.9 89	NOISE SO T-38 ENG. GROU	SA JOS-GO	UBJECTS AIRCRAF E-5A JP	-		. ~	TION: DLE, 4	BX RP ENGINE			2222	ETEOROL TEM BAR BAR ELTA N	DGY:		LHX		PROFES	DA RAFI RATION FILE VI	CODE CODE ERSION	033 02013 A
86.0 86.2 85.7 85.2 64.6 79.7 80.0 79.3 75.8 76.9 79.1 79.8 81.1 79.7 83.1 76.2 66.3 83.9 83.7 83.2 62.6 62.0 77.2 76.3 76.9 77.6 77.6 77.6 77.8 80.7 73.8 63.9 83.9 83.7 83.2 62.6 62.0 77.2 76.3 77.6 77.6 77.8 77.9 80.7 77.8 83.9 83.9 83.9 83.2 78.2 78.4 77.8 77.1 76.6 72.0 72.1 77.1 77.1 76.5 77.1 76.5 77.1 77.1 77.1 76.5 77.1 77.1 77.1 77.1 77.1 77.1 77.1 77	DISTANCE		1.0	20	30	0,	5.0		7.0	ANGLE		2EES)	110	120	130	140	150	160	170	180
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	200	86.6	80.2	45.7		9 4.6	7.67	80.0	79.3	75.8	76.3	10.9	79.1	8.62	81.1	7.67	83.1	76.2	66.3	65.5
78.2 78.4 77.8 77.1 70.6 72.0 73.0 71.5 08.9 66.9 67.5 68.2 70.0 71.0 71.7 70.3 73.2 66.2 56.2 70.0 72.4 72.5 73.3 74.1 72.6 72.5 71.1 70.6 72.0 71.0 71.0 71.0 71.0 71.0 71.0 71.0 71	256	8 8.0		83.2		20.0	74.7	76.3	70.8	73.5	74.2	74.8	76.9	75.6	78.8	77.4	7.8.7	73.8	63.9	63.1
75.4 75.5 74.3 74.1 73.7 69.3 70.3 66.9 66.9 67.5 68.2 70.0 71.7 71.7 71.3 73.2 66.2 56.2 72.4 72.5 71.8 71.0 70.6 66.5 67.4 65.1 64.0 65.2 65.2 67.6 68.7 67.8 70.4 63.4 63.4 63.4 63.4 63.4 63.4 63.4 65.2 67.6 66.7 67.8 67.8 67.8 67.8 67.8 67.8 67.9 67	000	78.2		77.8		76.6	72.0	73.0	71.6	69.6	69.8	76.5	72.3	73.3	74.1	72.8	75.8	66.8	58.9	58.3
72.4 72.5 71.8 71.0 70.6 66.5 67.4 66.1 64.0 65.2 65.9 67.6 68.7 69.2 67.8 70.4 63.4 53.4 69.2 69.2 67.5 61.8 71.0 70.6 65.2 67.5 61.8 71.0 70.6 65.2 67.5 61.8 71.0 70.6 65.2 67.5 61.8 71.0 69.2 67.5 61.8 71.0 69.2 67.5 61.8 71.0 69.2 67.5 61.8 71.0 69.2 65.3 66.6 65.2 67.5 61.8 71.0 69.2 62.3 61.8 61.8 61.8 61.8 61.8 61.8 61.8 61.8	200	15.4	75.5	74.9		73.7	69.3	70.3	68.89	66.5	67.5	68.2	70.0	71.0	71.7	70.3	73.2	66.2	56.2	55.7
69.2 69.3 68.6 67.7 67.5 67.5 67.7 64.4 63.7 64.4 63.1 61.5 62.8 65.2 65.4 66.6 65.2 67.5 67.5 60.5 50.4 65.2 65.8 65.9 65.3 64.4 66.5 65.2 67.5 61.3 59.7 61.3 59.8 65.8 57.7 59.9 59.0 59.0 59.0 59.0 59.0 59.0 59.0	630	72.4	72.5	71.8		20.6	66.5	4.19	66.1	94.0	65.2	6.69	9.19	2.89	69.2	67.8	10.4	63.4	53.4	53.1
65.8 65.9 65.3 64.4 64.3 60.8 61.4 60.2 58.9 60.4 61.3 62.8 64.0 64.0 62.5 64.5 57.5 47.3 62.2 62.3 01.8 60.9 61.1 57.9 58.3 57.1 56.2 27.9 58.8 60.2 61.5 61.3 59.7 61.3 54.3 44.0 58.3 58.4 54.1 57.7 58.9 55.0 54.0 53.4 55.2 57.7 59.0 58.8 56.8 57.8 57.9 51.0 44.0 58.3 58.4 54.1 57.7 51.8 51.0 51.0 53.4 55.2 55.0 55.1 55.3 57.9 51.0 44.0 51.1 51.2 51.8 54.3 47.3 49.4 51.5 52.0 53.4 52.6 50.4 52.8 54.8 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	800	69.5	63.3	68.0		67.5	63.7	4.49	63.1	61.5	62.8	63.6	65.2	4.99	9.99	65.2	67.5	60.5	20.4	50.3
62.2 62.3 01.8 b0.9 61.1 57.9 58.3 57.1 56.2 27.9 58.8 60.2 61.5 61.3 59.7 61.3 54.3 44.0 58.3 58.2 58.2 58.7 59.0 58.8 57.8 57.9 51.0 40.4 58.3 58.2 58.7 59.0 58.8 57.8 57.9 51.0 40.4 51.3 59.7 51.8 51.0 51.8 51.8 51.8 51.8 51.8 51.8 51.8 51.8	1000	65.8		65.3		64.3	60.8	61.4	60.2	58.9	9009		62.8	0.49	64.0	65.5	64.5	57.5	47.3	47.5
58.3 58.4 54.1 57.4 57.7 54.9 55.0 54.0 53.4 55.3 56.2 57.7 59.0 56.8 57.9 51.0 40.4 55.3 54.3 54.3 54.3 53.8 54.4 47.7 36.7 54.3 51.8 51.8 51.8 51.8 51.8 51.8 51.8 51.8	1250	62.2		01.8		61.1	57.9	58.3	57.1	5.95	6.76	58.8	60.2	61.5	61.3	2.65	61.3	54.3	0.44	44.5
54.3 54.4 54.3 53.8 54.3 51.7 51.8 50.8 50.6 52.6 53.6 55.0 56.3 55.8 54.4 47.7 36.7 50.1 50.1 50.2 47.3 49.4 50.5 52.0 53.4 52.6 50.4 50.6 44.0 32.8 50.1 45.1 46.5 46.6 46.0 32.8 50.1 46.0 46.1 46.2 46.2 47.3 47.5 47.0 48.5 50.1 46.3 42.7 46.6 40.0 28.6 41.0 50.1 46.1 46.2 40.2 40.2 41.7 47.1 48.5 50.1 46.1 46.3 42.5 40.0 28.6 40.0 28.6 41.0 46.3 37.3 37.3 37.3 37.3 37.3 39.5 41.0 42.3 41.0 38.2 37.7 31.2 31.2 31.3 31.3 31.3 31.2 31.3 31.3	1600	58.3		58.1		21.1	6.49	55.0	24.0	53.4	55.3	56.2	2.16	99.0	58.6	9.95	6.75	51.0	40.4	41.4
5u-1 5u-2 5u-4 5u-u 5u-u 5u-v 5u-u 5u-v 5u-v 5u-v 5u-v	2000	54.3		54.3		54.3	51.7	51.8	50.8	50.0	52.6	53.6	55.0	56.3	55.8	53.8	24.4	1.14	36.7	38.1
45.8 46.0 46.4 44.6 44.4 43.5 43.5 45.7 47.0 48.5 50.1 49.1 46.7 46.6 40.0 28.6 41.5 41.6 42.1 41.8 42.7 46.5 46.7 46.6 40.0 28.6 41.5 41.6 42.1 41.7 46.7 46.7 46.7 46.7 46.8 37.7 36.8 37.7 37.9 37.1 31.2 37.7 31.2 37.7 36.8 37.7 36.9 37.7 36.8 37.7 36.9<	2500	50.1		50.4		2005	48.3	48.2	47.3	47.3	4064	50.5	52.0	53.4	52.6	20.4	9.09	44.0	32.8	34.5
41.5 41.6 42.1 41.8 42.5 40.5 40.4 39.3 39.5 41.7 43.1 44.7 46.4 45.3 42.7 42.3 35.8 24.2 30.9 37.3 37.3 37.3 37.3 37.3 37.3 37.3 37	3150	45.8		4004		1.94	44.6	***	43.5	43.5	1.54	47.0	48.5	50.1	49.1	46.7	46.6	0.04	28.6	30.6
30.9 37.1 37.5 37.9 30.1 36.0 34.9 35.0 37.3 38.8 40.4 42.3 41.0 38.2 37.7 31.2 19.4 13.0 32.7 32.5 33.5 33.5 32.9 26.3 14.4 13.8 32.7 32.7 32.5 33.1 31.3 31.3 31.2 30.4 32.7 34.3 36.0 37.9 36.5 33.6 32.9 26.3 14.4 14.5 14.6 14.5 14.6 14.5 14.6 17.3 19.3 23.8 23.8 23.8 23.8 23.8 23.8 23.8 23	4000	41.5		45.1		45.5	40.5	40.4	39.3	39.5	41.7	43.1	1.44	40.4	45.3	45.7	45.3	35.8	24.5	26.5
32.0 32.3 32.7 32.5 33.1 31.3 31.2 30.4 32.7 34.3 36.0 37.9 36.5 33.6 32.9 26.3 14.4 27.2 28.4 28.2 28.4 28.2 28.8 28.2 28.8 28.2 28.8 28.2 28.8 28.2 28.8 28.2 28.8 28.2 28.8 28.2 28.8 28.2 28.8 28.2 28.8 28.8 28.2 28.8 28.8 28.2 28.8 28.8 28.2 28.8 28.2 28.8 28.8 28.2 28.8 28.8 28.8 28.2 28.8 28.8 28.8 28.2 28.8 28.8 28.2 28.8 28.2 28.8 28.2 28.8 28.2 28.8 28.2 28.8 28.2 2	2000	30.9		37.5		37.9	30.1	36.4	34.9	35.0	37.3	38.8	40.4	45.3	41.0	38.2	37.7	31.2	19.4	21.9
27.2 28.4 28.4 28.2 28.8 27.2 20.6 26.9 29.3 30.8 32.3 34.1 32.7 29.7 28.4 21.9 9.9 22.3 23.8 23.8 23.8 24.4 22.2 22.9 22.7 23.1 25.6 27.0 28.5 30.1 28.6 25.8 23.8 17.4 5.5 17.3 19.3 19.3 19.3 20.1 17.4 16.5 18.6 19.0 21.6 22.9 24.3 25.6 24.2 21.6 19.2 12.8 17.4 15.5 12.2 14.5 14.6 14.5 14.6 17.3 18.4 19.7 20.7 19.5 17.1 14.5 8.1 13.9 9.5 9.5 10.4 7.7 9.0 9.5 9.9 12.5 13.5 14.6 15.4 14.3 12.3 9.6 3.1 1.4 3.8 4.0 4.2 5.1 2.6 3.9 4.5 4.9 7.3 8.1 9.1 9.1 9.6 8.7 7.2 4.6	6369	32.0	32.3	32.7		33.1	31.3	31.3		30.4	32.7	34.3	36.0	37.9	36.5	33.6	32.9	26.3	14.4	17.0
22.3 23.4 23.3 23.8 24.4 22.2 22.9 22.7 23.1 25.6 27.0 28.5 30.1 28.6 25.8 23.8 17.4 5.5 17.3 19.3 19.3 19.3 19.3 20.0 17.4 16.5 18.6 19.0 21.6 22.9 24.3 25.6 24.2 21.6 19.2 12.8 1.3 12.2 14.5 14.6 14.5 15.3 12.6 13.9 14.2 14.6 17.3 18.4 19.7 20.7 19.5 17.1 14.5 8.1 6.9 9.3 9.5 9.5 10.4 7.7 9.0 9.5 9.9 12.5 13.5 14.6 15.4 14.3 12.3 9.6 3.1 1.4 3.8 4.0 4.2 5.1 2.6 3.9 4.5 4.9 7.3 8.1 9.1 9.1 9.5 8.7 7.2 4.6	9000	27.2	29.5	28.4		28.8	26.8	27.2		56.9	29.3	30.8	32.3	34.1	32.7	29.7	28.4	21.9	6.6	12.6
17.3 19.3 19.3 19.3 20.0 17.4 18.5 18.6 19.0 21.6 22.9 24.3 25.6 24.2 21.6 19.2 12.8 1.3 12.2 14.5 14.5 14.5 14.5 14.5 15.3 12.6 13.9 14.2 14.6 17.3 18.4 19.7 20.7 19.5 17.1 14.5 8.1 6.9 9.3 9.5 9.5 10.4 7.7 9.0 9.5 9.9 12.5 13.5 14.6 15.4 14.3 12.3 9.6 3.1 1.4 3.8 4.0 4.2 5.1 2.6 3.9 4.5 4.9 7.3 8.1 9.1 9.5 8.7 7.2 4.6	10010	22.3		23.3		24.4	22.2	22.9	22.7	23.1	25.6	27.0	28.5	30.1	28.6	25.8	23.8	17.4	5.5	8.3
12.2 14.5 14.6 14.5 15.3 12.6 13.9 14.2 14.6 17.3 18.4 19.7 20.7 19.5 17.1 14.5 8.1 6.9 9.3 9.5 9.5 10.4 7.7 9.0 9.5 9.9 12.5 13.5 14.6 15.4 14.3 12.3 9.6 3.1 1.4 3.8 4.0 4.2 5.1 2.6 3.9 4.5 4.9 7.3 8.1 9.1 9.6 8.7 7.2 4.6	12500	17.3		19.3		20.0	17.4	18.5	18.6	19.0	21.6	22.9	24.3	25.6	24.2	21.6	19.5	12.8	1.3	3.9
6.9 9.3 9.5 9.5 10.4 7.7 9.0 9.5 9.9 12.5 13.5 14.6 15.4 14.3 12.3 9.6 3. 1.4 3.8 4.0 4.2 5.1 2.6 3.9 4.5 4.9 7.3 8.1 9.1 9.6 8.7 7.2 4.6	16000	12.2		14.6		15.3	12.6	13.9	14.2	14.6	17.3	18.4	19.7	20.7	19.5	17.1	14.5	8.1		
1.4 3.8 4.0 4.2 5.1 2.6 3.9 4.5 4.9 7.3 8.1 9.1 9.6 8.7 7.2	20033	6.9		9.5		10.4	7.7	9.0	9.5	6.6	12.5	13,5	14.6	15.4	14.3	12.3	9.6	3.1		
	25000	1.4	3.8	4.0		5.1	5.6	3.9	4.5	4.0	7.3	8.1	9.1	9.6	8.7	7.2	4.6			

SOURCE/ 3.84 6. J85- 0UND RU CE	SUBJECT		ANGLE A	AND DIS	DISTANCE	FROM SC	SOURCE										74-004-029	
OISTANCE (FEET) 0	AIRCRA GE-5A NUP	- =		OPERATIONS IDLE, SINGLE	ATION: IDLE, 40 SINGLE	48% RPM ENGINE			2222	METEOROLOGYS TEMP BAR PRES REL HUMI	PRESS HUMID	= 59 = 29.92 = 70	P F H H H H		PROFINE DE PAGE	RAFT RAFT ATIO ILE EB 7	CODE CODE RSION	033 02013
91.	10	20	30	3	50	0.9	2	ANGLE 80	E (DEGREES 90 100	2EES)	110	120	130	140	150	160	170	180
			8	68.3	81.4	83.0	83.0	79.5	2.62	79.7	82.2	2.09	82.7	81.8	87.2	19.8	70.2	68.3
250 68.8	8 84.8			85.7	78.9	81.1	80.5	77.3	77.3	77.6	80.0	78.6	80.4	79.6	84.8	77.4	67.8	65.9
400 83.5		82.0	8 2	80.2	73.6	75.9	75.3	72.6	72.9	73.3	75.5	74.2	75.7	74.9	79.9	72.5	62.8	61.1
			78	77.3	6.02	73.1	72.5	70.2	9.02	71.1	73.1	72.0	73.2	72.4	77.3	69.8	60.1	58.5
	9 2 2 9		15	74.3	68.1	70.5	2.69	67.7	68.3	6.89	20.8	2.69	20.8	6.69	5.42	67.1	57.3	55.9
			7.7	71.2	65.3	67.3	8 . 99	65.5	0.99	66.5	4.89	67.3	68.2	67.3	71.6	2.49	54.3	53.1
			68	68.0	65.5	54.5	63.8	62.6	63.6	64.1	62.9	65.0	65.6	9.49	9.89	61.1	51.2	50.3
1250 67.4			6.49	2.49	59.5	61.1	60.7	6.69	61.0	61.6	63.4	65.5	65.9	61.8	4.59	58.0	6.74	47.3
	6 63.5	62.3	61	61.4	56.5	57.8	9.76	51.5	58.4	29.0	60.8	69.6	60.2	58.9	62.0	24.7	44.3	44.2
			21	58.0	53.4	9.49	24.5	54.3	29.5	999	58.5	57.3	57.3	55.9	58.5	51.3	40.7	40.9
			24	24.4	20.0	51.0	50.9	51.0	55.5	53.3	55.1	54.3	24.5	52.6	24.7	47.6	36.7	37.3
			20	50.4	7.94	47.2	47.1	47.3	48.9	49.8	51.6	51.0	20.1	48.8	20.1	43.6	32.5	33.4
			45	45.5	41.9	45.6	45.3	45.5	2.44	42.4	47.2	47.2	46.5	44.3	45.6	38.7	27.3	28.7
	6 40.1		39	+0.1	37.1	37.7	37.0	37.3	39.5	40.5	42.3	45.9	41.9	39.5	40.2	33.4	21.8	23.6
6340 34.1		34.	34	34.5	32.0	32.4	31.7	31.9	34.0	35.4	37.2	38.3	37.1	34.4	34.5	27.7	16.0	18.1
	3 29.2	29.5	53	59.5	27.1	8.72	27.3	57.6	6.62	31.3	33.0	34.3	33.0	30.5	29.5	55.6	10.7	13.2
			23.	24.4	22.2	22.9	22.7	23.1	25.6	27.0	28.5	30.1	28.6		23.8	17.4	5.5	8.3
125 00 17.	3 19.3		19.	20.0	17.4	18.5	18.6	19.0	21.0	22.9	24.3	25.6	24.2		19.2	12.8	1.3	3.9
			14.	15.3	12.6	13.9	14.2	14.6	17.3	18.4	19.7	20.7	19.5		14.5	8.1		
20000 6.9		9.5	9.5	10.4	7.7	0.6	9.5	6.6	12.5	13.5	14.6	15.4	14.3	12.3	9.6	3.1		
			;	5.1	5.6	3.9	4.5	6.4	7.3	8.1	9.1	9.6	8.7		4.6			

	DISTANCE = 250	FEET) OME	OMEGA 8.2 TEST 74-004-029	-029
NOISE SOURCE T-38A ENG. J8 GROUND	SE SOURCE/SUBJECT! T-38A AIRCRAFI ENG. J85-GE-5A GROUND RUNUP		(OPERATION: (IDLE,	ATION: IDLE, 48% RPM SINGLE ENGINE			TEOROL TEME BAR BAR REL	PRESS HUMIO	= 59 F = 29.92 IN = 70 %	I	AIRCA OPERA PROFI	ACRAFT CODE OF PROFILE VERSION 17 FEB 76 PAGE J1	ODE 033 ODE 02013 SION A
			P=PNLT			A=AL				T=ALT			
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2						• •	• •		•	٠.	• •		
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36						• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		. A.		• • • • • • • • • • • • • • • • • • • •		
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E 120							• •		AT		•		•
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160			•	•		•	•	A	•	•	•		
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•	DISTANCE	DISTANCE =	250 250	BAND 250 FEET													DHEGA FEST 7	-00	4-029	
OISE T-38 ENG. GROU	SOURCE/SUBJECT A AIRCRAFT Ju5-GE-5A ND RUNUP	RCE/SUBJECT AIRCRAFT 5-GE-5A RUNUP	•		0 0 0 0 0 0 0 0	RATION NGINE	N N N N N N N N N N N N N N N N N N N	, 70% E	g E		L 2 8 2 1	OROLOGY MP AR PRESS L HUMID	""""	9.92	A N N	1	AIRCRAFT OPERATION PROFILE V 17 FEB 76 PAGE C2	_ω_	CODE CODE CRSION	033 02021 A
BAND CENTER FREQ (HZ)	TER 2)	0	10	26	30	0,	5.0	99	ZO ANG	GLE (DEGRE	ES)	110	120	130	140	150	160	170	180
56		29	65	99	90	69	29	29	6,9	7.0	7.0	7.0	20	22	73		7	89	65	6.7
63		69	19	69	99	69	19	29	68	69	89	68	69	72	73	72	1.	99	249	65
3.0		•	62	40	69	65	63	99	29	65	65	99	69	11	7.1	69	89	49	62<	59
100		+9	63	63	49	65	40	29	29	29	29	99	20	7.1	1.4	73	7.1	68	>09	9
125		68	99	69	69	69	89	20	7.1	7.1	71	7.1	20	15	18	11	15	20	80	61
160		1.	73	92	92	22	52	62	62	62	9 1	78	81	81	81	81	8 1	14	9	m
25.5		2 4	23	2 4	* 1	C 3	t 0	0 9	200		6,0	2 9	22	3.5	12		"	0 /	554	264
315		61	62	65	9	29	949	60	29	62	99	6 9	2.2	72	72	200	1.0	67	514	20
004		99	20	99	20	69	65	20	68	20	29	20	25	92	92	73	202	69	>64	49
500		10	99	69	99	63	69	69	29	69	99	69	22	11	25	73	69	20	48	49
630		61	9	90	62	63	19	62	61	61	29	61	69	7.4	69	49	61	63	454	45
996		61	63	29	62	95	09	63	61	99	23	29	69	72	73	29	99	49	43	41
1000		9	9	09	61	62	61	62	9	66	58	61	89	71	89	63	09	62	45	39
1250		60	61	09	62	95	63	61	60	25	99	09	65	69	99	62	61	49	43	41
1600		99	63	29	63	10	+9	63	09	24	24	25	09	65	69	29	69	7.1	25	49
2000		60	29	9	99	7.0	68	99	63	55	99	96	66	49	68	69	20	7.1	53	4 8
2500		29	29	69	65	68	62	99	0.9	55	52	55	25	62	99	29	73	73	25	20
3150		99	69	29	63	99	99	49	66	55	53	55	99	09	9	69	99	7.0	20	46
0004		72	73	14	7.1	20	69	99	62	66	58	96	53	61	29	20	72	92	96	51
2005		83	81	83	81	62	75	11	73	7.1	99	29	99	19	7.0	7.0	20	14	26	52
6300		99	29	69	89	19	69	29	63	61	25	25	25	61	49	94	9	89	20	47
8000		72	72	73	20	20	99	99	9	25	55	58	61	99	19	63	99	29	20	48
10000		1.4		92	73	73	11	7.1	99	29	58	28	09	63	29	99	2	89	53	53
OVERALL	_	98	48	98	85	92	82	85	† 8	34	82	83	98	87	87	98	98	48	11	72

NOISE SOURCE/SUBJECT T-30A AIRCRA ENG. J85-GE-5A GROUND RUNUP			A FUNCTION OF A	ANGLE A	AND DIS	DISTANCE	FROM SO	SOURCE								TES		14-029	
	AIR 5-GE-9	UBJECT 8 AIRCRAFT 16-54			OPERATIONS ENGINE SINGLE		RUNUP, ENGINE	70%	α α Σ		METEOROLOGY B TEMP BAR PRES REL HUMI DELTA N =	NON	= 59.92 = 70 = 70	9 F H H H H H H		PROFE	RUN 02 ARCRATION CODE 0 OPERATION CODE 0 PROFILE VERSION 17 FEB 76 PAGE 02	CODE	033 02021
DISTANCE (FEET)		3	26	36	3	5.0	9	7.0	ANGL	1	(DEGREES) 90 100	110	120	130	140	150	160	170	180
		101.2 1		10101	1001	1.16		95.8	94.0	91.8	91.9	0.46	6.56	6.16	4.76	98.3	6.66	81.7	78.9
250 10			100.8	1.86	94.0	95.3		93.4	91.6	89.5	9.68	91.9	93.7	95.5	95.1	0.96	91.6	79.3	76.6
		90.2	98.2	96.1	95.0	92.8	94.3	91.0	89.2	87.0	87.1	89.6	91.5	93.1	92.7	93.6	95.1	76.8	74.1
	92.1	2006	92.7	9.06	93.1	3000		85.6	83.8	81.7	81.0	84.7	85.8	88.0	87.5	88.6	89.8	71.4	68.6
		87.7	1.68	87.6	87.1	84.4		82.7	80.9	78.8	19.0	82.1	84.2	85.1	84.7	86.0	87.0	68.4	65.6
	95.8	4.40	4.00	94.3	63.9	81.1	82.1	73.5	11.1	15.6	15.9	19.4	81.6	82.3	81.8	83.1	83.9	65.2	62.4
1630 8	82.1	80.8	82.7	A O. A	An. 3	77.6		76.0	74. 3	72.2	72.6	76.7	78.9	79.5	78.7	80.0	80.5	61.7	50.0
		76.8	78.8	76.8	76.5	73.8		72.3	70.0	68.5	9.69	73.8	76.0	76.6	75.3	76.8	77.0	58.2	55.3
	73.7	72.4	74.4	72.5	72.2	9.69	71.2	68.2	66.5	64.4	66.5	70.8	73.0	73.5	711.7	73.3	73.5	54.4	51.2
		9.19	69.5	67.7	07.5	65.5		63.8	63.2	61.0	63.2	67.7	69.8	70.2	68.0	4.69	9.69	8.64	46.1
		62.1	64.0	62.3	63.1	61.3		4.65	58.8	56.4	58.8	64.1	4.99	66.3	0.40	65.1	65.3	44.1	40.7
		50.9	58.0	56.3	5 9 3	56.5		94.6	54.0	51.8	24.5	59.9	62.3	61.8	56.5	60.2	60.4	37.6	33.0
		51.0	55.3	51.0	53.0	51.2		49.3	49.0	46.5	49.1	55.2	57.6	57.2	24.7	24.7	55.0	29.5	22.4
		2.44	6.54	44.9	46.6	44.6		43.1	45.6	39.8	43.2	50.1	52.6	51.8	49.0	48.2	0.64	17.4	6.9
6300 36	9	30.0	38.7	37.4	39.1	36.1	38.8	36.5	35.0	32.7	36.9	2.44	47.2	45.0	45.7	40.8	41.6	2.5	
8000		33.0	32.6	31.6	32.4	27.9	33.1	30.3	30.6	56.6	30.6	39.4	45.6	41.1	37.2	34.9	35.0		
10000	17.8	20.2	24.8	24.1	23.8	15.7	25.3	21.9	23.7	18.4	24.7	33.6	37.1	35.1	30.2	26.4	27.5		
		11.4	15.3	15.6	15.1	7.6	16.9	13.4	16.1	10.2	16.4	57.9	30.9	29.1	23.8	17.3	17.8		
16000		5.6	7.2	7.0	6.5		7.3	4.9	6.9	5.0	7.2	19.6	24.1	20.1	15.4	8.1	9.0		
250.00												9.6	12.2	8.7	6.9		. 2		
0.052													٠,						

	AS A F	FUNCTION OF		ANGLE A	AND DISTANCE FROM SOL	DISTANCE	FROM SC	SOURCE) OMEGA	OMEGA 8.2 TEST 74-004-029	04-029	
NOIS	E SOURCE/SUBJECT: 1-344 AIRCRAFT ENG. J85-GE-5A GROUND RUNUP	IRCRAF IP	_F.		OPER	OPERATIONS ENGINE SINGLE	RUNUP, ENGINE	70%	N P H	20000	HETEOROLOGYS TEMP BAR PRES REL HUMI	LOGY: PRESS = 2 HUMID =	= 59 = 29.92 = 70	9 F 2 IN HG	(3	PROFE	AIRCRAFT CODE OPERATION CODE PROFILE VERSION 17 FEB 76 PAGE E2	CODE CODE ERSION	033 02021 A
DISTANCE (FEET)	9	10	20	30	3	20	2	7.0	ANGLE 80		(DEGREES)	110	120	130	140	150	160	170	180
200	100.6	104.7	106.9		103.6	100.5	102.5	99.1	97.6	95.1	95.0	96.6	9.96	99.3	98.7		101.3	83.0	80.3
250	104.2		104.5	102.	101.2	98.1	10001	1.96	85.2	92.7	95.6	94.4	4.46	0.76	4.96		6.96	80.7	78.0
515	101.7	99.8	99.3	99.7	98.	95.0	97.0	94.3	92.8	87.7	90.2	92.2	92.1	94.5	94.0	94.9	96.5	78.2	72.8
200	96.1		96.4	24.	93.3	90.1	92.2	88.9	87.5	84.9	84.9	87.3	87.4	4.68	88.8	6.69	91.2	72.7	70.0
630	93.1	91.2	93.4	91.	90.3	87.2	89.2	86.0	84.5	82.0	82.1	94.6	6.49	86.6	86.0	87.2	88.3	1.69	67.0
900	89.8	87.9	94.1	87.9	87.0	83.9	86.0	85.8	81.3	78.8	19.0	82.0	82.3	83.7	83.1	94.4	85.2	66.5	63.6
1000	86.2	84.3	86.5	84.	83.5	80.4	82.5	79.67	77.9	75.5	75.7	79.3	79.6	81.0	80.0	81.3	81.9	63.1	60.4
1250	82.2	80.4	82.5	80.4	79.6	76.0	78.7	75.6	74.2	71.8	72.6	76.4	7.97	78.0	76.7	78.0	78.4	59.6	56.7
1600	77.8	76.0	78.1	76.	75.4	72.4	74.5	71.5	70.2	67.7	69.5	73.4	73.7	75.0	73.0	74.5	74.8	55.8	52.6
2000	72.8	71.1	73.3	71.	7.07	68.3	69.8	67.1	66.8	64.2	2.90	70.2	70.5	711.7	4.69	7.07	6.02	51.2	47.5
2500	67.2	65.7	67.8	65.	66.3	64.1	6.49	65.8	62.4	2.65	61.9	9 • 99	67.1	2.19	4.59	4.99	9.99	42.4	42.1
3150	61.2	69.1	61.8	29.	61.5	59.3	60.1	6.76	9.75	55.1	57.2	62.4	65.9	63.3	6009	61.4	61.8	38.9	34.4
0701	54.9	53.9	55.3	53.	52.5	53.4	54.3	52.0	51.3	49.1	51.6	2.16	58.5	58.3	22.5	25.7	56.1	30.3	23.6
2000	4.7.4	40.4	+8.2	47.	48.5	46.3	1.1.	45.1	44.8	41.8	45.0	51.6	53.1	52.7	49.8	0.64	8.64	18.2	7.7
6300	38.2	37.4	40.5	38.	40.3	37.2	40.1	37.8	37.0	34.0	38.1	45.2	45.4	9.94	43.2	41.3	45.2	6.2	
8000	29.5	30.7	33.4		33.1	28.4	33.8	30.9	31.3	27.2	31.2	39.9	45.7	41.4	37.5	35.1	35.3		
10000	17.8	20.2	24.8		23.8	15.7	25.3	21.9	23.7	18.4	24.7	33.6	37.1	35.1	30.2	26.4	27.5		
12500	7.0	11.4	15.0	15.6	15.1	7.6	16.9	13.4	16.1	16.2	16.4	27.9	30.9	29.1	23.8	17.3	17.8		
16000		2.6	7.2		6.9		7.8	6.4	6.9	2.0	7.2	19.6	24.1	20.1	15.4	8.1	9.0		
250.00												9.6	12.2	8.7	6.9		.2		
-																			

TABLE	A-WEIG	A-WEIGHTED OVERALL	VERALL	SOUND	LEVEL	(D8A)) IDENI	IDENTIFICATIONS	ION	
	AS A F	FUNCTION	OF	ANGLE A	AND DISTANCE		FROM SO	SOURCE								TEST	4	6-056	
OISE E	JAS-GE	BJECT 8	-	33333	OPERATIONS ENGINE SINGLE		RUNUP, ENGINE	70% R	Ω Σ	20000	METEOROLOGY: TEMP BAR PRES REL HUMI	PRESS HUMID	= 59.92 = 70 = 70	29 F 10 H G	(5	AIRG PROFE	AIRCRAFT OPERATION PROFILE VEI 17 FEB 76 PAGE F2	CODE CODE RSION	033 02021 1 A
DISTANCE (FEET)	•	10	20	30	9	50	99	7.0	ANGL B	111	OEGREES)	110	120	130	140	150	160	170	180
500	87.5	900	87.9	85.5	84.7	82.1	83.2	19.67	78.1	75.9	76.8	80.7	83.1	83.4	82.1	83.3	84.9	4.99	63.4
250	85.0	83.5	45.4		82.2	9.62	84.6	77.3	15.9	73.7	74.7	78.6	81.0	81.3	8.62	60.0	82.5	64.1	61.1
315	1070	78.1	82.0	77.7	7.67	74.5	75.7	72.4	73.6	40.0	70.5	74.3	76.7	76.8	75.2	76.2	80.1	59.1	58.7
200	76.7	75.2	77.2		7 4.2	71.7	72.9	69.8	68.7	9999	67.9	72.1	74.5	74.5	72.7	73.6	75.1	56.5	53.7
636	73.7	72.2	74.1		71.3	6.89	70.1	67.2	66.1	64.0	92.4		72.2	72.1	70.2	71.1	72.4	53.8	51.0
830	10.4	69.9	10.8		68.3	69.9	67.1	4.49	63.4	61.3	65.9	61.5	6.69	2.69	9.29	68.4	9.69	51.0	48.3
1990	66.8	65.5	67.3	65.2	65.1	65.9		61.5	9.09	58.6	9.09	65.1	67.5	67.3	6.49	65.6	9.99	48.1	45.5
1250	03.6	61.8	63.6	61.0	61.8	9.69	66.8	58.5	57.8	55.7	57.7	62.6	65.1	2.49	62.2	62.6	63.6	45.0	45.5
1600	58.9	58.0	9.69		58.3	56.3		4.66	24.8	52.8	55.0	60.1	62.6	62.0	59.3	59.5	60.3	41.7	39.4
2000	24.7	2 ** 5	55.0		54.8	52.8		55.5	51.9	8.64	55.5	51.5	60.0	59.3	999	56.3	57.0	38.2	36.1
1 2500	50.3	50.1	51.5		51.1	2.64		1.84	48.6	46.5	18.0	54.5	57.1	2.99	53.1	52.8	53.4	34.5	35.5
3150	0.94	46.0	47.3	40.4	47.2	45.3		45.0	44.8	45.7	45.3	51.1	53.8	52.8	4.64	48.9	69.5	30.5	28.6
0004	41.6	41.7	43.0		43.1	41.2		40.0	40.0	38.7	41.4	4.4	29.5	49.1	42.4	44.6	45.3	299	24.3
2070	37.0	37.2	30.4	37.9	38.5	36.8		30.6	36.4	34.4	37.1	43.2	46.1	45.0	41.1	40.0	40.7	21.5	19.7
9300	32.2	35.4	33.1	35.3	53.8	32.0		32.0	31. 3	6.62	35.6	28.8	41.8	40.6	36.5	35.1	35.8	16.4	15.0
0000	7.17	20.3	59.6	59.3	29.6	57.9		28.82	78.4	56.4	29.1	35.2	38.1	36.7	32.8	30.8	31.3	11.7	11.0
10000	23.1	23.9	25.4	25.2	25.3	23.0	25.8	24.3	24.7	22.6	25.2	31.3	34.0	32.6	28.8	26.4	26.7	7.0	7.1
12500	18.4	19.4	21.1	20.8	20.9	18.3	21.6	2002	20.8	18.6	21.1	27.1	29.6	28.1	24.6	22.0	21.9	2.5	3.1
16030	13.5	14.7	16.4	16.2	16.3	13.5	17.1	15.8	16.5	14.3	16.7	22.4	24.7	23.3	20.1	17.5	17.1		
20000	8.4	9.6	11.4	11.2	11.3	8.5	12.4	11.2	11.9	4.6	12.0	17.4	19.4	18.0	15.2	12.8	11.9		
25000	3.1	4.2	0.1	5.9	6.1	3.4	7.3	6.5	7.0	6.4	6.9	11.9	13.6	12.4	10.0	4.9	6.3		

							2000	רכינר								TOPE	-	TOU.	
		AS A FUNCTION OF		ANGLE	AND DI	DISTANCE	FROM	SOURCE) TEST	1 74-00	74-004-029	
NOISE SO T-38 ENG. GROU	URCE/S A J85-6 ND RUN	UBJECT: AIKCRAFT E-5A			OPER	OPERATIONS ENGINE SINGLE	RUNUP, ENGINE	70%	a T		METEOROLOGY: TEMP BAR PRES REL HUMI DELTA N = -	PRESS HUMID	= 59 = 29.92 = 70 = 07	9 F 2 IN HG 0 %	12	PROFE	AIRCRAFT OPERATION PROFILE VE 17 FEB 76 PAGE G2	CODE CODE RSION	033 02021
DISTANCE (FEET)	0	97	20	30	7	50	63	20	ANGL	!	(DEGREES)	110	120	130	140	150	160	170	180
200	91.5		91.7	89.				85.9		79.1	6.62	63.3	83.8	84.9	83.4	84.5	86.2	67.8	64.6
250	9.68		89.5	86.				80.6	19.	16.9	7.77	81.2	81.7	82.7	81.2	85.2	83.9	4.59	62.5
315	80.4		80.0	9				78.2	2:	74.6	75.6	79.1	79.5	80.5	78.9	79.8	81.5	63.0	9
200	93.6	78.8	20.00		25.00	74.5	6.07	77.0	72 2	60.9	73.3	74.7	75.4	76.0	7.0.2	100	19.0	67.0	56.4
630	77.7		77.8	75.				70.5	69	67.2	68.5	72.4	72.9	73.6	71.5	72.3	73.8	55.2	52.
860	74.4	12.5	14.5	72.				67.7		9.49	999	70.0	9.02	71.2	6.89	9.69	6.04	52.4	49.1
			,																
1000	2.00	0.60	11.0	0				0.40	• •	010	000	100	2.00	200	200	000	990	***	• • •
1500	65.0		63.6		61.5	200	50.8	58.7	54.5	2000	58.1	62.7	63.3	63.5	60.00	6000	61.7	40.0	40.9
2016	58.7		59.3	57.				55.5	55	53.0	55.3	00.1	60.7	60.8	57.7	57.6	58.3	39.6	37.
25 40	54.4		55.2	54.				52.1	52.	1.64	52.0	57.1	57.8	57.7	24.4	54.0	54.7	35.9	33.
3150	50.0		51.0	50.0	50.4			48.3		46.0	48.4	53.7	54.5	54.3	20.1	50.1	50.9	31.9	30.
4000	44.8		46.0		45.6			43.6		41.3	43.9	49.4	50.8	50.3	46.5	45.6	4094	27.3	25.4
5000	39.4		40.1		40.5			38.6		36.3	38.9	44.7	46.0	45.9	41.9	40.7	41.5	22.3	20.6
6343	33.8	33.9	32.5	34.7	35.1			33.3		31.2	33.9	39.9	42.1	41.2	37.1	35.6	36.4	16.9	15.
8000	28.5		30.4		34.3			28.9		27.0	29.7	35.7	38.5	37.0	33.0	31.0	31.6	12.0	11.
100.0	23.1		25.4	25.				24.3		22.6	25.2	31.3	34.0	32.6	28.8	56.4	26.7	7.0	7.
12500	18.4	19.4	21.1	20.				2002	20.	18.6	21.1	27.1	59.6	28.1	54.6	22.0	21.9	5.5	3.1
16000	13.5		16.4	16.				15.8	16.	14.3	16.7	22.4	24.7	23.3	20.1	17.5	17.1		
20000	4.8	9.6	11.4	11.2	11.3	8.5	12.4	11.2	11.9	9.7	12.0	17.4	19.4	18.0	15.2	12.8	11.9		
260.00									•		,								

	DIST	DISTANCE =	250 FEET	FEET													TEST 74-304-029	-100-	620
NOISE SOU T-384 ENG. GROUN	LAS-	SE SOURCE/SUBJECT# T-384 AIRCRAFT ENG. J85-GE-5A GROUND RUNUP			OPER	127	RUNUP, ENGINE	7.0%	д Д	2222	METEOROL TEMF BAR BAR KEL DELTA N	METEOROLOGYS TEMP BAR PRESS REL HUMIO	Non	9.92 70	F I X H G	2222	KUN US DARCAAFT CODE D OPERATION CODE O PROFILE VERSION 17 FEB 76 PAGE JS	FT CC TON CC TON CC TON CC	DE 033 DE 02021 ION A
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MARCAFT (OPERATION:		NORMALIZED 1/3 OCTAVE DISTANCE =	SOUND BAND 256 F	g 2	ESSURE	LEVEL	600.										IDENTIFICATIONS OMEGA 8.2 TEST 74-004-02	FICATION: 8.2 74-004-029	10N1	
No. 14 20 30 40 50 00 70 86 90 100 110 120 130 140 150 160 170 180 172 74 77 75 76 81 84 89 92 92 92 84 81 81 81 81 81 81 81 81 81 81 81 81 81		/SUBJECT AIRCRAF E-5A UP	=_		OPER	ATION LITAR NGLE		ŵ		E d	HETE BE	EN PRI	1 11110	9.9		1	AIRCRA OPERATOPROFIL 17 FEE	110N 110N 110N 110N 120N 1376	00E 00E SION	10 A A
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77 79 80 80 80 80 80 82 82 85 86 87 90 92 96 101 106 100 87 76 76 76 80 80 80 80 80 80 80 80 80 80 80 80 80	100	11	11	18	78	62	61	81	63	83	85	85	68	46	66	102	66	85	73	7.1
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93 96 97 98 99 101 102 10+ 105 107 110 114 118 117 111 97 88 8	10000		49	29	0.0	69	41	15	75	7.8	62	81	82	87	80	11	29	28	6 4	43
	OVERALL	93	96	26	96	66	6	101	102	0	105	0	110	114	118	117	111	16		

108-4 110-9 111-8 112-3 113-6 115-0 115 108-4 110-9 111-8 112-3 113-6 115-0 115 108-6 110-9 111-8 112-3 113-6 115-0 115 108-6 110-9 111-8 112-3 113-6 115-0 115 108-6 110-9 111-8 112-3 113-6 115-0 115 108-9 110-9 110-9 110-1 111-4 112-9 110-9 108-9 110-9 110-1 110-1 110-5 110-9 108-9 110-9 110-1 110-1 110-1 110-9 108-9 108-4 108-1 108-5 108-1 110-9 108-1 88-2 90-5 94-3 96-9 96-0 97-5 98-9 108-1 88-0 94-3 96-0 97-5 98-9 108-1 88-0 94-3 96-0 97-5 98-9 108-1 88-0 94-3 96-0 97-5 98-9 108-1 88-0 94-3 96-0 97-5 98-0 97-5 98-0 108-1 88-0 88-0 88-0 98-0 97-5 98-0 108-1 88-0 88-0 88-0 88-0 97-5 98-0 108-1 88-0 88-0 88-0 88-0 97-5 98-0 108-1 88-0 88-0 88-0 88-0 97-5 98-0 108-1 88-0 88-0 88-0 88-0 97-5 98-0 108-1 88-0 88-0 88-0 98-0 98-0 108-1 88-0 88-0 88-0 98-0 98-0 108-1 88-0 88-0 88-0 98-0 98-0 108-1 88-0 88-0 88-0 98-0 98-0 108-1 88-0 88-0 88-0 98-0 98-0 108-1 88-0 88-0 88-0 98-0 98-0 108-1 88-0 88-0 88-0 98-0 98-0 108-1 88-0 88-0 88-0 98-0 98-0 108-1 88-0 88-0 88-0 98-0 98-0 108-1 88-0 88-0 88-0 98-0 98-0 108-1 88-0 88-0 88-0 88-0 98-0 108-1 88-0 88-0 88-0 88-0 98-0 108-1 88-0 88-0 88-0 88-0 98-0 108-1 88-0 88-0 88-0 88-0 98-0 108-1 88-0 88-0 88-0 88-0 98-0 108-1 88-0 88-0 88-0 98-0 108-1 88-0 88-0 88-0 98-0 108-1 88-0 88-0 88-0 98-0 108-1 88-0 88-0 88-0 98-0 108-1 88-0 88-0 88-0 98-0 108-1 88-0 88-0 88-0 98-0 108-1 88-0 88-0 88-0 98-0 108-1 88-0 88-0 88-0 98-0 108-1 88-0 88-0 88-0 108-1 88-0 88-0 88-0 108-1 88-0 88-0 88-0 108-1 88-0 88-0 88-0 108-1 88-0 88-0 88-0 108-1 88-0 88-0 108-1 88-0 88-0 108-1 88-0 88-0 108-1 88-0 88-0 108-1 88-0 88-0 108-1 88-0 88-0 108-1 88-0 108-1 88-0 108-1 88-0 108-1 88-0 108-1 88-0 108-1 88-0 108-1 88-0 108-1 88-0 108-1 88-0 108-1 88-0 108-1 88-0 108-1 88-0 108-1 88-0 108-0								9-	A 8.2 74-004-029	6
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27.3 33.1 34.6 34.0 36.1 34.7 37.4		9	40	50.5			2	-		
15.2 24.9 25.2 25.1 27.8 26.1 29.3		2	39.	43.5	10		0	9		

TABLE	TONE-L	TONE-CORRECTED,	۰.	PERCEIVE	VED NOISE		LEVEL (PNOB)	8)) IDENTIF	DENTIFICATIONS OMEGA 8.2 TEST 74-004-02	LONI	
NOISE SOU	JAS-G	SE SOURCE/SUBJECT! T-38A AIRCRAFT ENG. J85-GE-5A GROUND RUNUP		•		RATION: MILITARY SINGLE EN	RY POWER, ENGINE	R, 160%	% P E	1	METEOROLOGY TEMP BAR PRE REL HUM	PRESS HUMID	= 29.	59 F 92 IN H	9	A ARCRA O OPERA PROFIL	AIRCRAFT COPERATION COPERATION COPROFILE VER	SION	033 01004
(DISTANGE	3	10	20	36	3	50	99	7.0	ANGLE		(DEGREES)	110	120	130	140	150	160	170	180
	109.6	169.5		111.	112.3	113.	0	-	m			122.7	127.1				105.0	96.0	91.6
315	104.9	105.0	107.6	107	110.1		110.5	20 00	- N	114.3		118.2	122.6	125.2			100.6	93.9	87.1
	102.4		105.2	104.	105.5		_	~	+	•	•	115.9	120.3	-			98.4	4.68	8.40
005	89.8	100.2	102.0	102.	103.0		~	1	o			113.5	117.8				96.1	87.0	82.5
929	97.6	97.6	100	99.9	100.5	101.6	-	105.2		- "	108.8	110.9	115.3		115.9	107.8	93.7	84.6	0000
	1	•	200		0.16			•	0.00	2	1.001	•	0.311	•			3116	1.70	6.11
1900	90.9			94.	6.46		97.5	9	100.7		103.3	105.5	109.8	10	1111.0	102.9	98.6	19.5	6.42
1250	87.6		91.	91.	91.9		94.4	2	97.6	9	100.3	102.5	106.8		108.3	100.2	85.8	16.8	72.1
16.0	4.4	86.2	88	99	84.7		91.1	~	94.3	4	97.1	4.56	103.9	~	105.6	97.4	85.9	73.9	2.69
2000	91.0	100		•	65.3		87.6	9	2.06	7	93.7	96.1	100.9	.	102.6	94.5	79.8	20.9	99
3150	73.4	75.8	12.	76.7	77.6	78.3	79.7	82.6	82.6		96.0	88.0	93.6	102.1	99.5	86.5	72.4	63.4	58.2
0004	68.5	71.3	72.	72.	73.2		75.2	2	17.9	S	81.7	84.7	89.3	•	91.0	82.1	67.9	58.9	53.1
0005)	63.1	66.3	.19	67.	4.89		70.4	2	73.0	~	17.2	80.3	84.6	-	86.2	77.5	63.0	53.8	48.0
6330	9.16	61.1		62.	63.4		65.3	0	6.79	ú	72.3	75.5	19.7	83.9		72.6	57.9	48.4	41.8
0008	55.6	26.7	58.	57.	59.1		6.09	2	63.6	6	9.29	74.1	15.7	0.08		68.8	53.9	43.6	36.8
0000			:	:									;		:			;	;
10000	200	21.9	1.7.		0.00		100	20.0	30.00	1010	200	000	11.4	13.1	73.5		200	29.2	51.5
16270	7.74	***		:	100		500	9.76	200	2000	2000	01.0	1.00	11.5		000	**	23.1	0.62
16400	35.1	7.54	41.	41.	43.3		44.0	47.0	48.3	20.8	53.0	50.5	919	699	63.8	25.7	37.8	56.4	15.3
50000	27.3	33.1		34.0	36.1	34.7	37.4	39.8	41.6	44.8	46.8	50.5	52.9	61.0	58.3	50.1	30.3	16.7	2.5
25300	15.5	24.9	2002	25.	27.8		29.3	31.9	33.5	30.4	39.0	43.5	48.5	25.0	52.0	43.6	20.3	7.0	_

ALICKART ALICKA			1011010	OF	ANGLE A	AND DIS	DISTANCE	FROM	SOURCE								TEST	1 74-0	74-004-029	
ANGLE (DEGREES) July 20 36 40 50 60 70 80 90 101 110 110 114 5 115 8 114 8 116 10 150 160 160 160 160 160 160 160 160 160 16	T-38/ ENG.	URCE/SU A A J85-GE NU RUNU	INCRAF INCRAF -5A	-		OPER	ATION: MILITAR SINGLE	ENGINE	!			TEM TEM BAR BAR REL	PRESS HUMIN	=29.	L H X	ပ္	PROPERTY DAY	03 CRAFT RATION FILE V FEB 76	CODE CODE RSION	033 0100
93.2 96.1 96.1 96.4 99.5 100.3 102.0 102.8 104.8 105.2 108.0 110.5 114.5 116.8 114.8 106.0 92.5 91.0 94.0 95.0 95.0 97.3 98.1 190.6 102.7 103.1 105.8 108.4 112.4 114.7 112.8 105.9 91.4 93.1 95.9 93.6 95.2 100.4 100.9 108.4 112.4 114.7 112.8 103.9 91.4 93.1 95.2 93.6 95.2 100.4 100.9 113.7 106.2 110.2 112.6 110.7 101.8 88.3 95.6 91.8 93.6 91.8 93.6 91.8 93.0 91.8 93.8 93.0 91.8 93.8 93.0 91.8 93.8 93.8 93.8 93.8 93.8 93.8 93.8 93	DISTANCE (FEET)		10	50	30	0,	5.0	6.0	0.2	ANGL	90 3	100 100	110	120	130	140	150	160	170	180
91.0 94.4 96.6 97.3 99.1 101.6 102.7 103.1 105.8 108.4 112.4 114.7 112.8 103.9 90.4 105.8 103.9 91.6 93.0 94.4 95.1 95.3 99.8 100.6 102.7 105.2 110.2 112.6 110.7 101.9 88.3 88.3 89.8 93.6 93.6 95.3 95.4 91.0 91.0 101.4 101.9 101.2 112.6 110.7 101.9 88.3 88.3 89.6 92.8 93.6 93.8 95.8 95.8 95.5 95.5 101.8 105.8 110.5 108.5 99.8 86.2 84.1 87.4 87.2 92.8 101.8 105.8 106.4 105.4 105.4 97.6 84.1 87.4 87.2 92.9 93.6 103.5 106.2 104.2 97.6 84.0 101.8 89.8 99.6 103.5 106.2 104.2 95.4 87.8 84.1 87.4 87.2 97.3 107.2 104.0 101.9 93.2 79.5 87.2 87.8 88.8 96.8 97.3 101.2 104.2 104.2 97.8 87.8 87.8 87.8 97.8 97.8 101.8 99.6 91.9 77.2 75.4 87.2 77.4 78.2 78.8 87.8 87.8 97.8 97.8 97.8 97.8 97.8	200	93.2	96.1	94.1	98.4	99.5	100.3	102.0	102.8	104.8	105.2	108.0	110.5	114.5	116.8	114.8	106.0	95.5	84.1	78.7
86.5 99.6 91.6 92.2 92.9 93.6 99.8 101.4 101.4 101.4 101.6 110.5 110.5 110.5 100.5 99.8 86.2 84.1 87.4 89.5 89.9 91.6 91.3 93.6 95.8 96.8 96.9 96.5 101.8 105.8 110.5 110.5 110.5 110.5 100.5 99.8 86.2 81.7 85.1 87.5 88.9 91.6 91.5 93.4 94.2 96.9 99.6 110.5 110.5 110.5 110.5 99.8 95.4 81.8 81.7 85.1 87.5 84.6 95.9 91.6 91.9 97.2 101.1 8 105.8 110.5 110.5 110.5 99.8 95.4 81.8 81.8 82.8 84.6 6 65.9 96.6 110.5 104.2 104.0 101.9 93.2 79.5 79.5 81.4 82.2 82.7 83.5 83.9 85.7 83.8 83.9 84.4 86.8 89.6 93.8 97.0 101.8 99.6 91.9 77.2 77.3 77.4 78.2 78.4 81.3 83.0 84.4 86.8 89.6 93.8 97.0 94.8 86.1 72.3 77.9 77.4 78.2 78.4 81.3 83.0 84.4 86.8 89.6 93.8 97.0 94.8 86.1 72.3 77.5 81.4 86.8 89.6 93.8 97.0 94.8 86.1 72.3 77.5 77.5 77.5 77.5 77.5 91.1 94.5 92.2 83.6 69.7 85.6 65.8 89.6 69.8 97.0 94.8 86.1 72.3 72.3 59.9 98.8 101.8 99.6 90.8 97.0 94.8 86.1 72.3 59.9 98.8 101.8 99.6 91.8 97.0 94.8 86.1 72.3 59.9 98.8 10.8 97.0 94.8 86.1 72.3 59.9 98.8 77.0 94.8 86.1 72.3 77.5 81.4 86.8 89.6 93.8 86.1 72.3 72.5 72.5 77.7 77.9 91.1 84.2 84.2 91.7 84.2 86.1 72.3 59.9 97.0 94.8 86.1 72.3 59.9 98.8 10.8 92.2 83.6 69.7 84.7 87.9 84.1 87.2 91.1 94.2 96.8 99.8 93.8 86.1 72.1 69.0 89.3 88.6 77.9 91.1 84.2 84.1 87.9 98.8 81.0 70.4 69.0 55.9 92.2 83.6 57.8 93.8 97.0 98.8 97.0 97.0 97.0 9	256	91.0	94.0	96.0	96.6	97.3	98.1	99.8	100.6	102.7	163.1	105.8	108.4	112.4	114.7	112.8	103.9	7.06	82.1	76.6
84.1 87.4 89.3 89.9 90.6 91.5 93.0 93.8 95.8 96.5 99.2 101.8 105.8 108.4 106.4 97.6 84.0 81.7 85.1 87.4 89.5 88.5 88.9 90.6 91.5 91.6 91.5 93.4 94.2 95.9 99.6 103.5 106.2 104.2 95.4 81.8 79.3 82.8 84.6 85.1 85.9 86.4 88.2 89.1 91.9 94.5 97.3 101.2 104.0 101.9 93.2 79.5 77.2 77.9 79.6 80.4 81.2 82.7 83.9 85.7 86.6 88.4 89.5 92.0 99.6 103.5 106.2 104.2 95.4 81.8 77.2 77.9 79.6 80.1 80.9 81.2 83.0 84.4 86.8 89.8 99.4 97.3 88.6 77.2 77.2 77.9 77.5 72.5 72.5 77.1 78.8 81.1 84.2 83.8 97.0 94.8 861.1 72.3 88.6 77.5 72.5 74.5 72.5 77.1 78.8 81.1 84.2 83.2 93.4 97.5 88.6 74.8 65.8 65.8 65.8 65.8 65.9 66.8 67.9 69.7 88.0 86.1 77.1 63.5 57.9 60.9 60.9 91.7 89.3 80.5 66.8 65.8 65.9 60.3 64.3 69.2 69.1 71.2 72.2 77.1 78.8 81.1 84.2 83.2 83.5 86.1 77.1 63.5 58.8 65.8 65.8 65.9 66.8 60.8 60.9 60.9 60.9 60.9 60.9 60.9 60.9 60.9	460	86.5	9.60	91.6	92.2	92.9	93.0	95.3	96.1	100.4	1000	10104	104.1	168.0	110.5	108.5	99.8	86.2	77.9	72.
81.7 d5.1 d7.3 d7.6 d88.3 d8.9 90.6 91.5 93.4 94.2 95.9 99.6 103.5 106.2 104.2 95.4 81.8 79.3 d2.8 d4.6 d5.1 d5.9 d6.4 d6.2 d9.1 91.0 91.9 94.5 97.3 101.2 104.0 101.9 93.2 79.5 76.8 d8.4 d6.2 d9.1 91.0 91.9 94.5 97.3 101.2 104.0 101.9 93.2 79.5 76.6 d9.1 d9.2 d9.2 d9.2 d9.4 d7.3 d9.4 97.3 d9.4 97.3 d9.6 77.2 77.2 77.5 77.5 78.5 d7.0 d4.4 d6.8 d9.6 93.8 97.0 94.8 d6.1 72.3 d8.7 72.6 77.2 77.6 77.5 77.5 77.5 77.1 78.8 d1.1 d4.2 97.0 94.8 d6.1 72.3 d8.7 77.6 77.5 77.5 77.5 77.1 78.8 d1.1 d4.2 97.0 94.8 d6.1 77.2 65.6 65.4 67.5 77.5 77.1 78.8 d1.1 d4.2 97.0 94.8 d6.1 77.1 65.8 65.4 67.5 67.5 77.1 78.8 d1.1 d4.2 97.0 94.8 d6.1 77.1 65.8 65.4 67.5 67.5 77.1 78.8 d1.1 d4.2 97.0 94.8 d6.1 77.1 65.8 67.2 d4.3 d4.7 d5.6 65.4 67.6 67.6 77.1 78.8 d1.1 d4.2 98.5 d6.8 d6.8 d6.8 d6.8 d6.8 d6.8 d6.8 d6.8	200	84.1	87.4	89.3	89.9	90.6	91.3	93.0	93.8	95.8	96.5	99.5	101.8	105.8	108.4	106.4	97.6	84.0	75.7	70.
79.3 82.8 84.6 85.1 85.9 86.4 88.2 89.1 91.0 91.9 34.5 97.3 101.2 104.0 101.9 93.2 79.5 76.8 80.4 82.2 82.7 83.5 83.9 85.7 86.6 88.4 89.5 92.0 98.8 101.8 99.6 90.9 77.2 77.2 77.2 77.5 80.6 81.3 83.0 84.0 85.8 97.0 94.9 98.8 101.8 99.6 90.9 77.2 77.2 77.2 77.4 78.2 77.4 78.2 77.4 78.2 77.4 78.2 77.4 78.2 77.4 78.2 77.4 78.2 77.5 78.5 80.2 81.7 84.1 87.2 91.1 94.5 92.2 83.6 69.7 65.8 65.8 69.7 77.5 77.5 77.1 78.8 81.1 84.2 91.7 89.3 80.5 66.8 65.8 65.8 65.8 65.8 69.7 77.5 77.1 78.8 81.1 84.2 91.7 89.3 80.5 66.8 65.8 65.8 65.8 65.8 65.8 65.8 65	630	81.7	65.1	87.3	87.6	88.3	6.88	9006	91.5	93.4	94.2	96.9	99.66	103.5	106.2	104.2	95.4	81.8	73.6	68
76.8 60.4 62.2 62.7 83.5 83.9 85.7 86.6 88.4 89.5 92.0 94.9 98.8 101.8 99.6 90.9 77.2 77.2 77.9 79.6 80.1 80.9 81.2 83.0 84.0 85.8 87.0 89.5 92.4 96.3 99.4 97.3 88.6 74.8 71.5 75.3 77.1 77.4 78.2 78.5 80.2 81.3 83.0 84.4 86.8 89.6 93.8 97.0 94.8 86.1 72.3 88.7 72.6 74.2 74.6 72.5 72.5 72.5 74.5 80.2 81.7 84.1 87.2 91.1 94.5 92.2 83.6 69.7 65.8 65.8 65.8 65.8 65.8 65.8 65.8 65.8	8 30	79.3	85.8	9 6	85.1	65.6	46.4	88.2	89.1	91.0	91.9	34.5	97.3	101.2	104.0	101.9	93.2	19.5	71.3	65.
74.2 77.9 79.6 80.1 80.9 81.2 83.0 84.0 85.8 87.0 89.6 93.8 97.0 94.8 86.1 72.8 71.5 75.3 77.1 77.4 78.2 77.4 78.2 78.5 80.2 81.3 83.0 84.4 86.8 89.8 93.8 97.0 94.8 86.1 72.8 71.5 75.3 77.1 77.4 78.2 81.1 84.2 91.1 94.5 92.2 83.6 69.7 65.8 65.8 65.8 65.8 65.8 65.8 65.8 65.8	1000	76.8	4.08	87.2	82.7	8 3.5	83.9	85.7	And	88.4	80.5	92.0	94.9		101.8	9.00	0.00		40.1	1,4
71.5 75.3 77.1 77.4 78.2 78.4 80.3 81.3 83.0 84.4 86.8 89.8 97.0 94.8 86.1 72.3 65.8 69.7 72.6 74.5 75.5 77.5 78.5 80.2 81.7 84.1 87.2 91.1 94.5 92.2 83.6 69.7 65.8 65.8 65.8 65.8 65.8 65.8 65.8 65.8	1250	74.2	77.9	29.62	84.1	80.9	81.2	83.0	84.0	85.8	87.0	89.5	92.4	96.3	66	97.3	88.6	74.8	66.7	619
65.8 69.7 72.6 74.2 74.6 75.5 75.5 77.1 78.8 81.2 91.1 94.5 92.2 83.6 69.7 65.8 65.8 65.8 65.8 65.8 65.8 65.8 65.8	1600	71.5	75.3	77.3	77.4	78.2	78.4	80.3	81.3	83.0	84.4	86.8	89.8	93.8	97.0	94.8	86.1	72.3	64.2	58.6
65.6 63.7 71.2 71.6 72.5 72.5 72.5 77.1 78.8 d1.1 84.2 94.2 91.7 89.3 80.5 66.8 62.5 co.5 67.9 68.3 69.2 69.1 71.2 72.2 73.7 75.6 77.9 d1.0 84.9 88.6 86.1 77.1 63.5 58.8 62.9 64.3 64.7 65.6 65.4 67.6 68.6 77.9 d1.0 84.9 88.6 86.1 77.1 63.5 58.8 62.9 64.3 64.7 65.6 61.5 61.5 61.5 61.5 61.5 61.5 61.5	2030	68.7	72.6	74.2	14.6	75.5	75.6	77.5	78.5	80.2	81.7	84.1	87.2	91.1	94.5	92.2	83.6	69.7	61.7	56
62.5 00.5 67.9 68.3 69.2 69.1 71.2 72.2 73.7 75.6 77.9 81.0 84.9 88.6 86.1 77.1 63.5 58.8 62.9 64.3 64.7 65.6 61.5 61.5 68.6 70.4 72.0 74.4 77.5 81.4 85.0 82.5 73.3 59.9 54.7 65.8 61.5 61.5 61.5 61.5 61.5 62.9 68.0 70.3 73.5 77.3 81.0 76.4 69.6 55.9 51.5 51.3 54.5 55.9 56.0 70.3 73.5 77.3 81.0 76.4 69.6 55.9 51.5 51.3 54.5 51.8 52.1 56.8 59.1 61.4 63.7 56.0 61.9 65.1 69.2 72.9 76.7 74.1 64.6 51.6 46.5 51.6 51.5 51.5 51.5 51.5 51.5 51.5 5	25 40	65.8	69.7	71.2	71.6	72.5	72.5	24.5	75.5	77.1	78.8	81.1	84.2	88.2	91.7	89.3	80.5	66.8	58.8	53.
58.8 62.9 64.3 64.7 65.6 65.4 67.6 68.6 70.0 72.0 74.4 77.5 81.4 85.0 82.5 73.3 59.9 54.7 58.4 60.3 60.6 61.5 61.5 61.5 64.5 65.9 68.0 70.3 73.5 77.3 81.0 76.4 69.0 55.9 50.3 59.8 50.3 59.8 50.8 50.8 50.8 50.1 50.8 61.5 61.5 61.5 61.5 61.5 61.0 77.3 77.3 77.3 77.3 77.4 69.0 55.9 50.3 50.3 50.5 51.8 52.1 53.0 52.6 54.9 56.0 61.9 65.1 69.0 73.0 70.2 61.0 47.8 41.9 46.2 47.5 47.6 48.0 50.5 52.6 55.9 60.7 64.7 69.0 66.0 57.2 47.8 41.9 46.2 47.3 57.5 60.7 64.7 69.0 66.0 57.2 43.6 37.2 41.6 42.5 42.8 43.8 43.0 45.6 46.7 47.8 50.5 52.6 55.9 60.1 64.6 61.5 53.0 39.1 32.1 35.5 37.7 40.4 41.4 42.5 45.3 47.3 50.6 55.0 69.7 50.7 56.5 48.4 34.2 50.8 53.0 33.2 25.4 25.4 26.7 25.5 28.3 23.4 30.0 33.2 35.1 38.2 44.7 55.1 69.1 64.1 64.3 4 23.8 23.8 25.4 26.7 25.3 25.4 26.1 27.8 20.3 23.0 23.1 20.3 23.2 25.4 26.1 27.8 20.3 23.0 23.1 20.3 23.2 25.4 26.1 27.8 20.3 23.0 23.1 20.3 23.2 25.4 26.1 27.8 20.3 23.0 23.0 23.0 23.0 23.0 23.0 23.0	3150	65.5	6000	67.9	68.3	69.5	69.1	71.2	72.2	73.7	15.6	77.9	81.0	84.9	88.6	86.1	77.1	63.5	92.6	64
54.7 58.4 60.3 60.6 61.5 61.3 63.5 64.5 65.9 68.0 70.3 73.5 77.3 81.0 76.4 69.0 55.9 50.3 50.3 54.5 55.9 56.2 57.1 56.8 59.1 60.1 61.4 63.7 66.0 69.2 72.9 76.7 74.1 64.6 51.6 46.3 50.5 51.8 52.1 53.0 52.6 54.9 56.0 65.1 69.0 73.0 70.2 61.0 47.8 41.9 46.2 47.3 47.6 49.0 48.0 50.5 51.5 52.7 55.3 57.5 60.7 64.7 69.0 66.0 57.2 47.6 47.8 41.6 42.5 42.6 43.8 43.0 45.6 46.7 47.8 50.5 52.6 55.9 60.1 64.6 61.5 53.0 39.1 32.1 36.5 37.7 40.4 41.4 42.5 45.3 47.3 50.6 55.0 69.7 56.5 48.4 34.2 22.5 24.3 24.4 26.7 25.5 28.3 23.4 30.0 33.2 35.1 38.2 43.2 48.1 43.4 26.7 36.8 33.8 23.4 33.2 48.1 45.1 37.8 23.0	40.00	58.8	65.9	64.3	2.49	65.6	4.59	9.19	68.6	70.0	72.0	74.4	77.5	81.4	85.0	82.5	73.3	6.65	52.0	46.
50.3 54.5 55.9 56.2 57.1 56.8 59.1 60.1 61.4 63.7 66.0 69.2 72.9 76.7 74.1 64.6 51.6 46.3 50.3 51.5 51.8 52.1 53.0 52.6 54.9 56.0 67.2 59.6 61.9 65.1 69.0 73.0 70.2 61.0 47.8 41.9 46.2 47.3 47.5 43.6 43.0 48.0 50.5 51.5 52.7 55.3 57.5 60.7 64.7 69.0 66.0 57.2 43.6 37.2 41.6 42.5 42.6 43.0 45.6 46.7 47.8 50.5 52.6 55.9 60.1 64.6 61.5 53.0 39.1 35.1 35.5 37.5 36.6 37.7 40.4 41.4 42.5 45.3 47.3 50.6 55.0 69.7 64.6 61.5 53.0 39.1 20.3 24.7 25.3 25.4 26.7 25.5 28.3 23.4 30.0 33.2 33.2 33.2 48.1 45.1 37.8 20.3 33.0	2000	24.7	58.9	60.3	9.09	61.5	01.3	63.5	64.5	6.69	68.0	70.3	73.5	77.3	81.0	78.4	0.69	55.9	48.0	41.
46.3 51.5 51.8 52.1 53.0 52.6 54.9 56.0 57.2 59.6 61.9 65.1 69.0 73.0 70.2 61.0 47.8 41.9 46.2 47.3 47.6 43.0 48.0 50.5 51.5 52.7 55.3 57.5 60.7 64.7 69.0 66.0 57.2 43.6 37.2 42.6 43.8 43.0 43.6 46.7 47.8 50.5 52.6 55.9 60.1 64.6 61.5 53.0 39.1 35.2 41.6 42.5 37.3 37.5 33.6 37.7 40.4 41.4 42.5 45.3 57.5 50.6 55.0 59.7 56.5 48.4 34.2 25.5 30.9 31.9 34.0 33.7 36.8 33.2 44.5 44.5 44.5 54.2 51.0 43.4 28.8 25.3 25.4 26.7 25.5 28.3 25.4 30.0 33.2 35.1 38.3 43.2 48.1 45.1 37.8 23.0	6300	50.3	54.5	55.9	50.5	57.1	9.96	59.1	60.1	61.4	63.7	999	69.5	72.9	76.7	74.1	9.49	51.6	43.6	37.
41.9 46.2 47.3 47.6 43.0 48.0 50.5 51.5 52.7 55.3 57.5 60.7 64.7 69.0 66.0 57.2 43.6 37.2 41.6 42.5 42.6 43.0 45.6 46.7 47.8 50.5 52.6 55.9 60.1 64.6 61.5 53.0 39.1 32.1 36.5 37.3 37.5 38.6 37.7 40.4 41.4 42.5 45.3 47.3 50.6 55.0 59.7 56.5 48.4 34.2 26.5 31.6 31.7 32.9 31.9 34.0 35.7 36.8 39.5 41.5 41.5 41.7 43.4 26.8 83.2 24.3 31.6 31.6 25.4 26.7 25.5 28.3 25.4 30.0 33.2 35.1 38.3 43.2 48.1 45.1 37.8 23.0	9900	+6.3	53.5	51.8	52.1	53.0	52.6	54.9	96.0	57.5	9.69	61.9	65.1	0.69	73.0	70.5	61.0	47.8	39.6	33.
37.2 41.6 42.5 42.4 43.8 43.0 45.6 46.7 47.8 50.5 52.6 55.9 60.1 64.6 61.5 53.0 39.1 32.1 36.5 37.3 37.5 38.6 37.7 40.4 41.4 42.5 45.3 47.3 50.6 55.0 59.7 56.5 48.4 34.2 26.5 30.9 31.6 31.7 32.9 31.9 34.6 35.7 36.8 39.5 41.5 44.7 49.4 54.2 51.0 43.4 28.8 23.0 20.3 24.7 25.3 25.4 26.7 25.3 25.4 26.3 23.0 33.2 35.1 38.3 43.2 48.1 45.1 37.8 23.0	10000	41.9	46.2	47.5	47.6	48.0	48.0	50.5	51.5	52.7	55.3	57.5	60.7	64.7	69.0	66.0	57.2	43.6	35.9	29.
32.1 36.5 37.3 37.5 38.6 37.7 40.4 41.4 42.5 45.3 47.3 50.6 55.0 59.7 56.5 48.4 34.2 26.5 30.9 31.6 31.7 32.9 31.9 34.5 35.7 36.8 39.5 41.5 44.7 49.4 54.2 51.0 43.4 28.8 20.3 24.7 25.3 25.4 26.7 25.5 28.3 29.4 30.0 33.2 35.1 38.3 43.2 48.1 45.1 37.8 23.0	12560	37.2	41.6	42.5	42	43.B	43.0	45.6	46.7	47.8	50.5	52.6	55.9	60.1	9.49	61.5	53.0	39.1	31.4	25.6
26.5 31.9 31.6 31.7 32.9 31.9 34.6 35.7 36.8 39.5 41.5 44.7 49.4 54.2 51.0 43.4 28.8 23.0 20.3 24.7 25.3 25.4 26.7 25.5 28.5 28.4 30.0 33.2 35.1 38.3 43.2 48.1 45.1 37.8 23.0	16000	32.1	30.5	37.3	37	38.6	37.7	40.4	41.4	42.5	45.3	47.3	50.6	55.0	2.65	56.5	48.4	34.2	26.5	20.
24.3 24.7 25.3 25.4 26.7 25.5 28.3 29.4 30.0 33.2 35.1 38.3 43.2 48.1 45.1 37.8 23.0	20000	56.5	39.9	31.6	5	32.9	31.9	34.0	35.7	36.8	39.5	41.5	44.7	4.64	54.5	51.0	43.4	28.8	21.1	15
	25000	23.3	24.7	25.3	25	26.7	25.5	28.3	23.4	30.0	33.2	35.1	38.3	43.2	48.1	45.1	3.7.E	220		10

	AS A F	FUNCTION OF ANGL	N OF A	w	AND DIS	DISTANCE	FROM S	SOURCE) OMEGA	OMEGA 8.2 TEST 74-004-02	A 8.2 74-004-029	
OISE EN GR	E SOURCE/SUBJECT: 1-38A AINCRAF! ENG. J85-GE-5A GROUND RUNUP	SUBJECT: AIRCRAFT GE-5A NUP	_		OPERA	OPERATION: MILITARY POWER, SINGLE ENGINE	Y POWE	R, 160%	% PP H	20000	METEOROLOGY: TEMP BAR PRES REL HUMI	PRESS HUMID	= 29. = 0.08	59 F 92 IN H 70 %	9	AIRCRA OPERAL PROFIL	AIRCRAFT OPERATION PROFILE VE 17 FEB 76 PAGE G3	CODE	033 01004
DISTANCE (FEET)		3	20	30	9	50	6.0	20	ANGL		(DEG2EES) 90 160	110	120	130	146	150	160	170	180
200	95.5	97.1	99.3	98.6	99.5	106.3	162.0	104.01	104.8		148.0	110.5	114.5	118.2		106.0	92.5	84.1	78.7
256	93.2	95.0	97.1		97.3	98.1			~		105.8	108.4		116.	m	103.9	90.4	82.1	76.
315	91.0	95.8	6 ** 6	4.46	95.1	6.56	97.6			102.2	103.7	106.2		114.	111.2	101.9	88.3	80.0	74.5
004	99.7	90.6	92.7		95.9	93.6	95.3	4.26	N		101.4	104.1			-	8.66	86.2	77.9	72.
200	40.4	88.4	90.5		9006	91.3	93.0		8		99.5	101.8			•	9.76		15.1	70.
630	84.0	86.1	86.1		88.3	88.9	90.6		+	95.5	6.96	99.6		107.		95.4	81.8	73.6	68.
900	81.5	83.8	85.7		85.9	96.4	88.2		0	93.2	34.5	97.3			2	93.2		71.3	65.
000+	70.0	41.4	2 2 6		2 2		1 10	0 2 0	9	90	000	0.00	9		400 2	0			
1250	76.4	78.9	80.7	80.1	0.00	81.2	83.0	85.7	85.8	88.3	89.5	92.4	96.3		97.8	88.6	74.8	66.7	61.1
1500	73.8	70.3	78.1		78.2		80.3	82.5	83.0	85.7	86.8	89.8	93.8			86.1	72.3	64.2	58.
2000	71.0	73.7	75.4	•	75.5		77.5	73.7	80.2	83.0	84.1	87.2	91.1	6.56		83.6	69.7	61.7	56.
2500	68.0	70.8	72.4		72.5		74.5	7.97	77.1	86.1	91.1	84.2	88.2	93.1	6.68	80.5	8.99	58.8	53.
3150	2.49	9.19	69.1		69.5		71.2	73.4	73.7	76.9	77.9	81.0	84.9	0.06	86.6	77.1		55.6	*65
0004	9.09	63.7	65.2		9.59		9.19	9.69	70.0	73.1	74.4	77.5	81.4	86.2	82.9	73.3	69.65	52.0	46.1
5030	56.1	59.5	61.0	•	61.5		63.5	65.3	69.6	68.89	70.3	73.5	77.3	81.9	78.7	69.0		48.0	41.
6300	51.5	24.9	999	299	57.1		59.1	9.09	61.4	2.49	0.00	69.2	72.9	77.3	74.3	9.49		43.6	37.6
9000	1.94	2005	52.0		53.0		6.45	2995	51.5	68.6	61.9	65.1	0.69	73.3	70.3	61.0	47.8	39.9	33.
10000	41.9		47.3	47.6	48.6	48.0	50.5	51.5	52.7	55.3	57.5	60.7	64.7	69.0	66.0	51.5	43.6	35.9	59.9
12500	37.2		45.5	45.8	43.8		45.6	46.7	47.8	50.9	52.6	55.9	63.1	9.49	61.5	53.0	39.1	31.4	25.6
16030	32.1		37.3	37.5	39.6		40.4	41.4	45.5	45.3	47.3	50.6	55.0	2.65	56.5	48.4	34.2	26.5	20.8
20000	56.5	30.9	31.0	31.7	32.9		34.0	35.7	36.0	39.5	41.5	44.7	49.4	54.5	51.0	43.4	28.8	21.1	15.
25000	20.3		25.3	25.4	26.7		28.3	59.4	30.6	33.2	35.1	38.3	43.2	48.1	45.1	37.8	23.0	15.1	10.
																	, , ,		

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10-14-14 1080	50000	OPERATION: MILITAR SINGLE	ATION: MILITARY POWER, 1 SINGLE ENGINE	100% RPH	METEOROL DELTA N	PRESS HUMID	59 F 9.92 IN 70 %	9	RUN 03 ARCRATI CODE 0 OPERATION CODE 0 PROFILE VERSION 17 FEB 76 PAGE J3	E 033 E 01004 ON A
	ď	P=PNLT			A=AL		T=ALT	5		
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30	05 04	09		0.	06 80 90	06	100	110	120 130	

NOISE SOURCE/SUBJECT T-38A AIRCRAFT		700	FEET													OMEGA	8.2	4-029	
GROUND RUNDP	/SUBJEC AIRCRAF E-5A UP			OPER SI	RATIONS FTERBURNSINGLE EN	ON S BURNER, E ENGINE	¥ X	POWER		METE TE BBA	ETEOROLOGY TEMP BAR PRESS REL HUMID		29.92 70 70 0.0	THX I	9	AIRCRAFT COPERATION COPERATION COPROFILE VER	AFT TION CLE VER	00E 00E SION	033 0100 A
BAND CENTER FREQ (HZ)	73	10	20	30	3	50	9	Z AN	ANGLE (90	100 100	110	120	130	140	150	160	170	180
6		6	8.1	4	78	7	1	7	2.5	9	9	a	96	60		9	70	"	7.0
9 10	82	82	82	9 1	82	9 9	87	9 9	87	88	9 6	95	96	102	104	102	8 4	12	2.2
80	78	84	94	85	65	87	69	68	89	90	95	95	102	105	106	103	82	11	73
100	18	98	98	88	18	06	06	95	93	16	35	66	106	110	109	106	81	7.8	75
125	88	87	68	68	90	91	93	46	46	96	100	103	110	114	113	109	82	4	16
160	68	06	91	91	35	93	46	26	95	86	101	104	110	115	114	111	83	80	76
200	9 1	5 6	36	06	15 6	95	94	0 0	65	26	100	105	111	112	112	111	93	23	75
315	85	86	9 8	0 0	200	26	0 M	0 4	ל ה ה	200	20	105	113	115	110	108	8 1	12	22
004	87	89	90	95	94	16	96	26	98	101	103	109	115	118	116	110	4.6	16	72
500	69	91	95	93	96	96	98	100	100	103	107	110	119	119	118	111	79	92	73
636	98	98	88	68	93	95	95	96	95	98	105	107	116	116	113	108	11	73	70
900	8.0	83	98	89	91	95	93	66	96	66	101	108	110	117	112	105	73	7.7	68
1000	48	85	82	85	89	9.6	91	96	93	86	103	106	111	112	108	104	72	69	99
1250	62	82	83	85	88	06	69	96	16	66	100	101	107	110	105	100	7.1	89	99
1600	80	82	84	85	89	9.0	69	36	95	96	96	103	107	109	104	100	69	29	99
2000	80	81	81	83	96	88	87	95	35	26	93	103	105	107	101	26	99	29	65
2500	62	81	82	83	86	87	98	36	06	95	93	101	103	104	66	91	65	65	9
3150	14	7.8	18	96	48	85	82	06	68	93	16	26	101	102	66	68	63	62	62
7004	81	94	83	82	94	85	83	96	88	95	95	98	100	103	66	88	63	62	61
5000	73	11	92	11	81	83	80	98	94	88	91	96	26	101	96	85	29	28	25
6300	7.3	92	22	11	62	81	18	48	82	85	87	16	46	96	91	82	66	25	52
8000	9	83	83	83	80	80	80	82	80	81	85	95	95	98	89	62	26	24	52
10000	6.8	20	20	72	7.1	42	22	22	22	11	81	87	88	46	86	73	64	47	45
OVERALL																			

SOURCE/SUB 384 384 384 384 384 384 384 384 384 384	74	30 1112.3 1110.1 1107.8	. ~	RATION! SINGLE ENGIN SINGLE ENGIN	1 111 1	HAX PONER	×	Z	METEORDI OGY E) AIRCR	*	CODE	
1002.5 1002.6 1002.4 99.9 97.2		30 1112.3 1110.1 105.8			79				TEMP BAR REL LTA N	000	= 59.92 = 70 0 08	FHX	9	9 0PE	AIRCRAFT OFERATION PROFILE VE 17 FEB 76 PAGE D4	CODE RS ION	033 01003
109.5 1107.5 1107.8 102.4 99.9 97.2		112.3 110.1 107.8 105.5				2	ANGLE 80	(DEGREES) 90 100	ES)	110	120	130	140	150	160	170	180
102.4 102.4 97.2 97.2 97.2		105.5	- 10	113.4 1	115.9 11		118.5 12		124.3 1		-			128.1	99.2	96.0	93.4
102.4 99.9 97.2 94.5	5 104.5 0 101.9 2 99.4	105.5				-	0						129.6	123.9	94.8	911.6	88.9
97.2	2 99.4		0 1		m -	00 3	20 1	m 1			+ -			121.7	95.5	89.3	86.5
94.5		100.1	- m	104.1 1		+ 0	0 -			117.7 1		125.5		117.2	87.7	84.5	81.5
	3 96.8	2	•		~	+	9							114.9	85.2	81.9	78.9
1000 91.8 95.4	4 34.2		98.2		99.6 102			5.8 1	18.0 1		118.9	10	-	112.4	82.5	79.3	76.3
		92.7	95.4	96.2			99.3 10	03.0 1	105.3 1			117.9		109.8	7.67	76.5	73.4
80.0	88.		95.5		0			10.1 1	12.5 1		113.5	_	~	107.0	16.8	73.5	70.4
85.8			99.5		0			17.1	19.5 1			~	80	104.1	73.6	1004	67.2
79.3	81.		86.1		~			13.7	16.2 1			•	.0	6 .001	70.1	8.99	63.6
75.3			82.2		8			8.61	35.4	_		~	•	97.0	62.9	9.29	59.
70.			17.9					2.5	18.1			•		95.7	61.2	6.19	24.1
6.59	68.		73.2		8			80.8	13.5			m	0	88.1	56.1	52.7	1.64
6300 60.9 62.4	4 63.5		68.2		8			6.5	18.7	4		10	~	83.4	50.5	47.1	43.
56.0	28		64.2		•			1.9	4.8			m	10	19.1	7.94	45.3	37.
		2				5	70			75.1	82.5	83.7	81.6	15.8	41.2	36.5	32.3
47.4		5	52			8	2			70.5	78.1	19.4	77.3	71.5	35.3	30.7	25.1
	3 44.8	4	50.			9				65.5	73.3	74.6	72.6	2.99	28.5	22.6	16.1
20000 34.5 36.5		39.9	43.7	1.44	4 0.94	48.8	48.1 5	52.0	55.4	8.65	68.0	69.2	4.29	61.5	19.2	11.3	9
25.7	29.	2	35			2	0			53.6	62.0	63.2	61.5	55.4	9.8	0.	

	m			6 4	-	0	7	, ,	3	2	9 4	-	3	2	6	3	1	1	5	
	333 100 A	180	93.4	88.	84.	78.	75	73	20.	67.	63.6	54.	64	43.	37.	32.	25.	16.1	•	
IDENTIFICATION: OMEGA 8.2 TEST 74-004-029	CODE CODE RSION	170	96.0	91.6	86.9	31.9	2 0	26.5	3.5	4.0	66.8	6.29	52.7	17.1	15.3	36.5	30.7	22.6	11.3	•
DENTIFICATIONS OMEGA 8.2 TEST 74-004-02	ION CE VER		~ 0	80 K		- 2	u	. ~		9	- 10	. ~	-	2	2	2	2	s	2	8.
DENTIF OMEGA TEST 7	ARCRAFT OPERATION PROFILE VE 17 FEB 76 PAGE E4	160	99.								20.							28.		
36.5	PLPOA	150	128.1	123.9	119.5	114.9	, 611	109.8	107.0	104.1	100.9	92.7	88.1	83.4	7.67	75.8	71.5	66.7	61.5	55.4
	9	140	m 0	-		0					108.0				80	81.6	77.3	72.6	4.19	61.5
	59 F 92 IN H 70 %	130	.0.10				10	117.9	_		108.9		m	2	87.8	83.7	19.4	14.6	69.5	63.2
	= 29. = 29.	120	136.0	131.8	127.3	122.6	133 4	117.5	114.8	111.9	108.7	100.5	95.7	90.7	86.7	82.5	78.1	73.3	68.0	62.0
	PRESS HUMID	110			120.1		112.7	110.0	107.1	104.1	100.8	92.7	48.1	83.2	79.3	75.1	70.5	65.5	59.8	53.6
	METEOROLOGY: TEMP BAR PRES REL HUMI DELTA N =	(DEGREES) 90 100	124.3	119.9	115.4	110.6	90	105.3	102.5	99.5	96.2	88.1	83.5	78.7	74.8	70.6	66.1	61.0		49.0
			123.8	119.4	114.7	109.7					94.9				-	9.19	65.9	57.7	52.0	45.3
	POWER	ANGL	10 \$	No		u 10	4 6 2 9		2	2	91.1		7.77	9	68.4	03.8	59.5	54.0	+8.1	
SOURCE	¥ X	0,2	119.6	115.1	110.4	105.4	40.0	160.0	97.1	0.46	90.7	82.4	7.17	72.8	68.8	64.5	59.8	94.6	48.8	41.7
Z E	ATION: AFTERBURNER, SINGLE ENGINE	3	116.6	112.3	107.8	102.9	2 001	4		91.			75.			61.7	57.1	51.9	46.0	38.7
DISTANCE FR	RATION: AFTERBU SINGLE	50	116.7	112.3	107.6	102.7					87.8					66.3	55.5	50.5	1.44	36.6
AND DIST	OPER	ş	115.5	1111.1	106.5	101.6	00	96.2	93.3	90.3	86.9	78.5	73.6	64.5	1.49	59.9	55.1	50.0	43.7	35.9
PERCEI VE		36	113.8	109.3	104.6	986	0 10	94.2	91.2	88.1	84.7	76.0	73.9	9.59	61.3	56.7	51.8	46.6	39.9	31.7
	_ fr	20	113.0	108.9	104.0	98.9	0 20	93.4	90.4	87.2	83.8	75.0	69.7	64.3	59.9	55.1	50.3		38.0	
TONE-CORRECTED, F	BJECTA IRCRAF	3	114.0	109.3	104.3	94.7	7 30	92.9			83.2	74.		63.		53.9	49.0	43.3	30.5	27.5
AS A F	E SOURCE/SUBJECT! T-38A AIRCRAFT ENG. J85-GE-5A GROUND RUNUP		112.0	107.4	102.4	97.1	4 40	91.5	84.5	95.4	81.9	72.9	67.5	61.9	57.3	52.5	4.7.4	41.4	34.5	25.7
TABLE	018	DISTANCE (FEET)	200	315	200	9 0 0	1000	1250	1600	2000	2500	4960	2000	6300	9979	10000	12500	16000	23000	25000

	AS A F	A FUNCTION OF		ANGLE A	AND DIS	DISTANCE	FROM S	SOURCE) OMEGA	GA 8.2 T 74-30	OMEGA 8.2 TEST 74-304-029	
10	JURCE/SI	SE SOURCE/SUBJECT: T-38A AIRCRAFT ENG. J85-GE-5A GROUND RUNUP	_		OPERATIONS AFTERB SINGLE			HAX	POWER		HETEOROLOGY: TEMP BAR PRES REL HUMI	PRESS HUMID	= 59 = 29.92 0 = 70	LHX	9	A AIR	AIRCRAIT CODE AIRCRAITON CODE PROFILE VERSION 17 FEB 76 PAGE F4		033 01003
DISTANCE (FEET)		97	20	30	3	50	9	20	ANGLE	•	(DEGREES) 90 100	110	120	130	140	150	160	170	180
230	95.4		97.8		162.2								123.1	125.1		116.3	85.9	82.9	80.1
250	93.2		95.7	97.2	1001		101.4	105.0	104.1	108.2	110.6		121.0	123.0	119.7	114.2	83.8	80.8	78.0
515	88.9		93.5	- 6	9.50	96.5							116.8	118.8		112.1	79.7	76.6	73.7
500	86.6	68.2	89.0		93.6			98.5	97.6				114.7	116.6		107.9	77.5	74.4	71.5
630	84.3		86.0		91.4			96.2	35.3	66		106.9	112.5	114.4		105.7	75.3	72.1	69.5
800	82.0		84.4	-	89.1		90.5	93.9	93. 3	97.1		104.6	110.3	112.2	0	103.5	73.0	6.69	66.9
1000	79.6	81.1	82.0	83.8	86.7	67.3	88.2	91.5	90.7	94.7	97.4	132.2	108.1	109.9	106.8	101.2	70.6	67.5	64.5
1250	77.1		19.6	81.3	84.3	84.8	85.8	89.1	88.2	92.2	95.0	8 .66	105.7	107.6	104.5	98.8	68.1	65.0	62.0
1630	74.5		77.0		87.8	82.3	93.3	85.5	85.7	89.7	95.5	97.3	103.3	105.2	102.1	96.4	65.5	62.4	59.4
20 00	71.9	73.3	14.4	70.5	73.2	9.62	80.8	83.9	83.1	87.0	90.0	2.46	100.8	102.7	1.66	93.8	65.9	28.1	56.7
2500	9.69		71.5		16.4	76.7	17.9	81.1	80.2	84.1		91.8	98.1	6.66	6.96	91.0	59.8	26.7	53.7
3150	65.6		68.1		73.1	73.4	74.7	77.9	6.92	80.8		88.6	6.46		93.6	87.7	56.5	53.4	50.4
4000	61.9		4.40		69.5	69.8	71.1	74.3	73.3	77.2		85.1	91.3		90.0	84.1	52.7	49.6	46.7
2000	57.8	59.5	60.2		65.4	65.7	67.0	70.3	2.69	73.1		81.1	87.2	89.1	85.8	80.0	48.5	45.4	42.5
6300	53.4	54.8	55.8		61.0	61.3	62.7	66.0	64.8	68.8	72.3	76.7	85.8	84.8	81.5	75.6	44.1	41.0	38.1
9000	49.7	51.0	52.1		57.2	4.16	58.9	62.1	6.09	64.9	.80	72.8	19.5	81.1	17.9	72.0	40.4	37.3	34.3
1.0060	45.7		48.1		53.2	53.3	54.9	57.9	56.7			68.5	75.3	77.0	74.0	68.0	36.5	33.4	30.2
12500	41.3		43.8		48.7	48.7	50.5	53.3	52.2			03.8	71.0	72.5	69.7	63.7	32.2	29.0	25.9
16006	36.5		39.0		43.8	43.3	45.6	48.3	47.3			58.7	66.2	67.5	65.0	58.9	27.6	24.3	21.1
20000	31.2	32.5	33.8	35.3	38.4	38.4	40.5	42.7	41.8	45.3	49.1	53.0	6.09	62.0	59.7	53.6	22.5	19.2	15.9
25000	25.4		28.0		32.4	32.4	34.2	35.6	35.8			46.8	54.8	55.9	53.8	47.8	17.1	13.7	10.3

NOISE SOURCE/SUBJECT:		OT LONG	A FUNCTION OF A	ANGLE A	AND DIS	DISTANCE	FROM S	SOURCE) OMEGA	- 2	04-029	
GROUN	E SOURCE/SUB T-30A AI ENG. J05-GE- GROUND RUNDP	BJECTS IRCRAFI			OPERA	OPERATION: AFTERBURNER, SINGLE ENGINE	RNER, ENGINE	НАХ	POWER		METECROLOGY TEMP BAR PRE REL HUM DELTA N =	PRESS HUMID	= 59 = 29.92 = 70	LHX	9	AIRCE OPERIO PROFI 17 FE	RUN 04 AIRCRAFT OPERATION PROFILE VE 17 FEB 76 PAGE G4	CODE CODE RSION	033 01003
DISTANCE (FEET)	9	10	20	30	;	50	9	20	ANGLE		(DEGREES) 90 100	110	120	130	140	150	160	170	180
2.10	97.9	99.5	9.66		103.0	104.0	104.2	107.1	147.3	111.5	112.7	117.7	124.3		123.2	116.3	85.9	82.9	80.1
250	95.8	97.3	7.76	~	100.9	0	102.1	105.0				115.6	122.2	123.0		114.2	83.8	80.8	78.0
315	93.6	95.1	95.5	9	98.8		100.0		103.1	107.3	108.	113.4	120.2		119.0	112.1	81.8	78.7	75.9
004	91.4	6.26	93.3	*	9006	9.76	97.9				106.	111.3	118.1		116.9	110.0	79.7	16.6	73.7
200	39.5	90.06	91.1	2	4.46		95.7						115.9	116.6	114.8	107.9	77.5	74.4	71.5
630	86.9	89.2	84.4	6	92.2		93.5				101	106.	113.7	114.4	112.6	105.7	75.3	72.1	69.5
800	0 4.7	82.9	99.5		6.68		91.2	93.	94.2	98.3		104.	111.5	112.2	110.5	103.5	73.0	6.69	66.9
1000	82.1	83.4	84.1		87.5	88.4	6.88	91.5	91.8		97.4	162.2	109.3	109.9	108.2	101.2	70.6	67.5	64.5
1250	79.6	690	81.6	82.8	85.1	85.9	86.5	69.1		93.4	95.0	99.8		107.5	105.9	98.8	68.1	65.0	62.0
15.10	77.1	78.3	79.1		82.6	83.4	84.1	85.5			35.5	97.3			103.5	4.96	65.5	62.4	59.4
2002	74.4	75.7	76.4		80.0	80.7	81.5	83.9			90.0	1.46			101.1	93.8	65.9	28.7	56.1
25.00	71.5	72.7	73.5		77.1	77.8	78.7	01.1	81.3		87.2	91.8			98.3	91.0	8.65	26.7	53.7
3150	68.2	4.69	70.2		73.9	74.5	75.5	77.9			84.	88.6	96.1		95.0	87.7	56.5	53.4	50.4
+900	9 ** 9	65.2	0.90		70.1	70.7	711.7	74.3			80.	85.1	92.3	93.1	91.1	84.1	52.7	9.64	46.1
5000	59.3	9.09	61.4	63.1	6.59	4.99	57.5	70.3	6.60			81.1	87.9	89.1	86.7	80.0	48.5	42.4	45.5
6300	54.5	55.8	56.6	58.4	61.3	61.7	63.0	66.0	65.3		72.	76.7	83.3	84.8	82.1	15.6	44.1	41.0	38.1
80.00	50.5	51.5	55.5	54.3	57.4	57.1	29.1	62.1	61.2		68.	72.8	79.5	81.1	78.2	72.0	4.0.4	37.3	34.3
10000	1.5.7	47.0	48.1		53.2	53.3	54.9	57.9	56.7		64.3	68.5	75.3	77.0	74.0	68.0	36.5	33.4	30.5
12500	41.3	45.6	43.0		48.7	48.7	50.0	53.3	52.2	55	59.7	63.8	71.0	72.5	69.7	63.7	32.2	29.0	25.9
16030	36.5	37.8	39.0	40.6	43.8	43.8	45.6	48.3	47.3	50.0	54.6	58.7	66.2	67.5	65.0	58.9	27.6	24.3	21.1
20000	31.2	32.5	33.8		38.4	38.4	40.2	42.7	41.0	45.	49.1	53.0	6009	62.0	59.7	53.6	22.5	19.5	15.9
25000	55.4	20.7	28.0		32.4	32.4	34.2	36.6	15.0	39	42.9	46.8	54. A	55.3	53.8	47.R	17.1	13.7	10.3

6 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E SOURCE/SUBJECT: 1-34A AIRCRAFT ENG. J85-GE-5A GROUND RUNUP 10 (OPERATIONS SINGLE SINGLE	TILLON IN GLE EN	ATION: AFTERBURNER, MAX POWER SINGLE ENGINE	POWER	A A T A A A A A A A A A A A A A A A A A	OROLOGY I	S = 29	N H H H H H H H H H H H H H H H H H H H	PAC	TEST 74-02-029 RUN 04 AIRCRAFT CODE 03 OPERATION CODE 01 17 FEB 76 PAGE J4	ODE 033 ODE 01003 SION A
N I I I I I I I I I I I I I I I I I I I					× ×		¥ ¥	×		a a + ×		

	1/3 OCTAVE DISTANCE =	BAND	FEET													OMEGA TEST 7	8.2	-031	
NOISE SOURCE/SUBJE T-38A AIRCRA ENG. J85-GE-5A GROUND RUNUP	SOURCE/SUBJECT A AIRCRAFT J85-GE-5A JND RUNUP	<u>.</u> _		O P P P P P P P P P P P P P P P P P P P	ERATIONS ENGINE R SINGLE E	NOUN	, 75% E	g E		METE TEI BAN DELT	ETEOROLOGY: TEMP BAR PRESS REL HUMID		9.92 70 70 0 08	N N N	1	AIRCRAFT (OPERATION (PROFILE VER 76 PAGE C1	FT CI ION CI E VER C1	CODE 0	033 02020 A
BAND CENTER FREQ (HZ)	9	97	20	30	0,	5.0	3	ANGL 7 u 8		DEGREES 90 10	100	110	120	130	140	150	160 >	*170 >	180
50	>19	62	63	95	63	29	29	99	29	8.0	2.0	69	72	17	92	92	25	65	55
63	>70	19	19	49	99	68	89	89	90	7.0	20	202	73	92	11	11	75	65	55
9.0	29	99	99	99	69	6 9	69	69	68	7.1	72	14	75	77	7.8	62	11	29	57
100	29	89	72	72	72	1.4	1,4	72	7.1	14	92	11	11	62	81	82	11	29	57
125	**	7.4	14	22	92	11	11	75	15	11	28	7.8	11	82	19	62	11	29	25
166	92	22	22	78	62	81	81	79	73	80	85	81	81	80	19	81	77	67	22
250	2.2	2.2	22	73	73	1.	76	::	2.2	10	27	2 8 2	8.0	. 4	77	2,2	9,0	9 9	200
315	69	202	7.1	7.1	7.1	14	72	7.5	69	7.1	14	75	92	77	25	70	72	62	52
304	7.7	77	72	7.1	72	73	73	7.1	69	72	73	72	74	14	72	69	20	9	20
500	72	14	73	72	72	72	7.0	99	99	69	69	72	72	72	69	99	29	25	47
630	0.6	20	02	89	69	2.0	68	65	49	29	29	69	72	11	69	99	69	55	45
900	99	69	99	99	99	99	65	63	19	63	65	29	7.1	7.1	20	89	19	24	*
1000	6.8	68	69	69	49	+9	+9	63	58	63	99	20	72	7.1	69	99	65	64	39
1250	99	69	63	49	10	69	63	29	25	29	65	69	71	20	68	99	09	20	40
1600	20	99	99	99	99	29	65	+9	60	62	49	29	20	69	69	29	62	25	42
2000	29	29	99	29	90	69	29	49	61	09	63	99	89	29	29	29	09	20	6
2500	7.0	92	20	20	7.0	7.1	68	99	49	9	63	99	99	99	69	69	63	53	43
3150	29	20	29	99	29	69	60	+9	9	96	0.9	9	19	63	29	99	61	51	41
0004	69	99	29	29	99	69	65	63	00	99	58	61	63	62	40	49	9	20	0 7
5000	14.	73	7.1	7.1	60	89	+9	63	10	20	96	66	09	28	61	62	58	84	38
6300	7.8	62	11	92	1.4	73	69	68	99	09	58	29	9	66	61	63	29	64	39
8000	69	69	29	29	99	89	+9	10	60	25	24	25	25	25	25	58	99	94	36
10000	+0	90	63	99	63	61	58	25	22	53	24	25	26	24	22	28	26	94	36

XXX< = EXTRAPOLATED OR INTERPOLATED SPL > SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

SOURCE/SUBJECT: 3.00 A C E S A I C R A I C B	0 404		מי בייער	30000								TEST (TEST 74-004-031	4-031	
100.1 100.6 99.6 99.7 97.7 98.1 99.6 99.5 97.7 98.1 99.6 99.6 99.6 99.6 99.6 99.6 99.6 99	. 101	SINGLE	RUNUP, ENGINE	75% RPM	F	£ 0	METEOROLOGY STEMP TEMP BAR PRES REL HUMI DELTA N =	י מבמ	= 59.92 = 70 = 70	N N N N N N N N N N N N N N N N N N N		AIRCOPEROF	RUN 01 AIRCRAFT CODE PREFATION CODE PROFILE VERSION 18 FEB 76 PAGE 01	CODE CODE RSION	033 02020
100.1 103.6 99.6 99.7.2 97.2 97.2 97.2 97.2 97.2 97.2 97	404	96	6.0	20	ANGLE	(DEGREES) 90 100	100	110	120	130	140	150	160 >	>170 ,	180
95.1 95.6 94.6 94.6 94.6 94.6 94.6 94.6 94.6 94				4.46	95.6	92.7	94.5	95.3	7.96	6.96	96.9	1.96	92.9	82.3	71.6
92.4 92.8 91.9 91.9 91.9 92.8 83.9 85.9 85.9 85.9 85.9 85.9 85.9 85.9 85		6 94.0	91.0	83.5	87.8	88.3	90.1	90.9	92.3	95.6	92.4	92.1	88.4	77.7	66.9
899.5 894.9 899.0 888.0 888.0 888.0 888.0 888.9 889.0 888.9 889.0 888.9 889.0 888.9 889.0 888.9 889.0 888.9 889.0 888.9 889.0 888.9 889.0 888.9 889.0				87.1	45.3	6.58	87.8	88.6	90.1	90.3	90.1	89.8	86.0	75.3	79
60° 3 66° 8 65° 9 85 79° 3 75° 9 75° 9 75° 75 72° 3 75° 3 75° 75° 75 72° 3 75° 3 75° 75° 75 66° 3 66° 6 66° 4 66° 4 66° 4 66° 4 66° 66° 4 66° 66°	80			84.5	42.7	83.3	85.3	86.2	87.6	87.9	87.6	87.3	83.5	72.8	61
79.3 73.7 79.0 79.1 79.0 79.2 72.3 75.9 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0			84.0	81.9	80.0	86.6	82.6	83.5	85.0	85.3	85.0	84.6	80.8	70.1	29
79.3 73.7 79.0 79 75.9 75.8 75.7 75 72.9 75.8 75.7 75 72.9 75.8 75.7 75 55.0 56.9 66.5 66 55.0 55.0 66			7.10	0.67	1	•	13.1		7.70	6.70	7.70	01.0		7.10	22
75.9 75.8 75.7 75 72.3 72.3 72.2 72 64.3 64.6 66.6 66 55.6 55.6 60.6 66.5 66 55.6 55.8 55.2 59 42.2 55.2 44.6 67.2 59 42.9 39.2 36.1 37	2.		78.2	76.0	74.1	74.7	76.7	17.1	79.2	19.5	79.3		6.47	64.2	52
72.3 72.3 72.2 72 68.5 68.6 68.4 68 64.3 64.9 64.5 64 59.6 60.6 60.2 59 59.6 55.8 55.2 54 49.2 50.2 69.2 54 42.9 44.2 43.8 43 37.9 39.2 33.1 37	6		15.0	72.8	6.02	71.9	73.6	9.42	76.2	76.3	76.2		71.9	61.1	64
668.5 668.6 668.4 668.4 668.4 668.4 669.8 660.2 559.4 660.2 559.4 660.2 559.4 660.2 559.4 660.2 559.4 660.2 559.4 660.2 559.4 660.2 559.4 660.2 559.4 660.2 559.4 660.2 559.4 660.2 559.4 660.4 660.2 559.4 559.4 559.2 559.4 559.4 559.4 559.4 559.4 559.4 559.4 559.4 559.4 559.4 559.4 559.4 559.4 559.4 559.4			71.6	69.3	+ - 20	68.89	20.5	71.2	73.1	73.0	72.8		68.7	57.7	45.1
64.3 64.9 64.5 64.9 64.5 64.9 64.6 60.2 89.6 60.2 89.6 60.2 89.6 60.2 89.6 60.2 89.2 60.2 89.2 60.2 89.2 60.2 89.2 89.2 89.2 89.1 87.9 89.2 89.2 89.1 87.9	9		58.1	9.69	63.7	9.59	67.3	68.0	70.0	8.69	69.1		9.59	24.0	3
594.8 60.6 60.2 599 595.0 550.2 599 42.9 44.0.2 43.6 438 37.9 39.2 43.6 439 37.9 39.1 37	4.3 64.3	3 65.6	0.40	61.5	28.5	61.5	63.2	64.3	0.99	65.8	6 * + 9	64.3	61.1	16.3	35
55% c			59.3	9.99	24.5	299	28.7	0.09	61.5	61.3	4.09		56.3	43.8	53
49.2 50.2 49.5 49 42.9 44.2 43.8 43 37.9 39.2 38.1 37	4.8 54.9		54.1	51.0	48.6	51.4	53.3	55.1	2005	26.4	25.4		20.5	37.0	1
37.9 39.2 38.1	.2		48.1	45.2	45.0	45.7	47.3	1 8 4	51.5	51.3	1.64		***	58.9	-
37.9 39.2 38.1	3.1 43.3		41.9	38.4	35.7	39.5	41.1	43.6	45.5	45.5	43.6		37.8	17.9	
	m.		36.7	32.8	27.8	33.8	36.0	38.7	40.0	7.04	37.7		31.7	6.2	
31.3 33.1 31.4	.2			25.0	20.4	56.9	29.4	32.3	34.5	34.2	31.2	26.7	24.2		
25.0 27.3	0.	6 23.8	20.0	10.5	11.3	18.7	19,3	25.0	27.5	27.2	21.7	18.1	15.5		
14.6 17.9 16.2 13				8.0	2.2	8.0	10.3	12.4	16.5	17.1	9.1	9.5	6.8		
9.0			2.7				1.4		5.5	7.0		6			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

I ABLE	- INO	I UNE -CURRECTEU,		PERCEIVED	TO NOTOE		- CPNUB									OMECA	OMEGA 8.2		
	AS A	AS A FUNCTION OF		ANGLE A	AND DISTANCE		FROM SC	SOURCE								TEST	7	04-031	
NOISE SOURCE/SUBJECT: 1-38A AIRCRAFI ENG. J85-GE-5A GROUND RUNUP	JAST-G	UBJECT AIRCRAF	-		OPERATION: ENGINE SINGLE		RUNUP, ENGINE	75%	RP H	2222	METEOROLOGY: TEMP BAR PRES REL HUMI	06Y: = PRESS = 2 HUMID = = -3.0	= 59 = 29.92 = 70	N X H		PROFE	AIRCRAFT OPERATION PROFILE V 18 FEB 76 PAGE E1	KUN U1 ARCRATI CODE D OPERATION CODE D PROFILE VERSION 18 FEB 76 PAGE E1	033 02320
DISTANCE		3	50	30	0,	53	99	92	ANGLE 83		(DEGREES) 90 100	110	120	130	140	150	160	>170	180
200	101.6	-	100.9	100.6	2.66	8.66	3.76	95.2	93.5	93.3	95.1	95.8	2.96	97.5	6.96	97.2	95.9	82.3	71.6
250	29.1		4.86	94.1	97.3	4.76	94.0	95.8	91.1	91.1	92.9	93.6	94.5	95.3	2.46	95.0	2.06	80.1	69.3
212	93.0	94.2	93.2	95.6	94.0	65.46	30.1	87.8	86.2	80.0	90.7	91.4	92.3	93.1	40.4	92.7	86.0	75.3	66.9
200	91.0		96.3	90.0	89.3	89.8	87.6	85.3	83.5	63.9	85.9	86.7	87.6	88.5	87.6	87.8	83.5	72.8	61.9
630	87.8		87.2	86.9	86.2	87.1	84.9	82.6	80.8	81.2	83.2	84.0	85.0	85.8	85.0	85.2	80.8	70.1	59.0
800	84.5	2.40	83.9	83.6	63.3	04.3	62.1	8.62	78.6	78.3	80.3	81.2	82.2	83.0	82.2	82.4	78.0	67.2	55.9
1000	80.8		80.3	40.8	80.3	81.3	79.1	76.8	75.0	75.3	77.3	78.2	79.2	80.0	79.3	78.4	24.9	64.2	52.5
1450	77.4		77.0	77.1	77.0	78.0	15.9	73.5	71.7	72.5	74.2	75.1	76.2	16.9	76.2	76.2	71.9	61.1	49.0
1600	73.8		73.5	73.6	13.5	5.47	72.5	70.1	09.5	**69	71.1	711.7	73.1	73.6	72.8	72.8	68.7	57.7	45.1
2000	70.0		2.69	2.69	2.69	1001	0.69	4 .99	64.5	66.1	6.79	68.5	70.0	70.4	69.1	69.0	4.59	24.0	40.8
2500	65.8		65.8	65.5	65.5	699	6.40	62.2	60.3	62.1	53.8	64.8	0.99	66.3	6 * + 9	9.49	61.1	48.3	35.2
3150	61.3	62.0	01.4	6.09	61.0	01.7	2.09	27.4	55.3	57.3	59.3	60.5	61.5	61.8	4.09	0.09	56.3	43.8	27.2
0004	56.1		2005	55.8	55.8	26.2	54.8	21.7	78.5	51.8	53.8	25.6	299	26.8	25.4	24.5	20.5	37.0	14.5
2010	50.1		50.3	6.64	20.0	30.4	18.0	45.7	43.1	46.1	47.7	20.0	51.5	51.6	1.64	48.1	44.4	58.9	1.9
6330	43.5		44.3	43.5	43.8	7 * * *	45.3	38.7	36.0	39.7	41.3	43.8	45.5	45.4	43.6	45.0	37.8	17.9	
8900	39.5	39.5	39.4	37.5	37.7	38.6	36.9	33.0	28.0	34.0	36.2	38.8	9.04	40.3	37.7	35.8	31.7	7.9	
10000	31.3		31.4	34.2	33.6	31.1	29.1	25.0	20.4	26.9	29.4	32.3	34.5	34.2	31.2	26.7	24.2		
12500	25.0		25.8	24.0	54.6	23.8	20.6	16.5	11.3	18.7	19.3	25.0	27.5	27.2	21.7	18.1	15.5		
16000	14.6	17.9	16.2	13.3	14.9	15.3	11.7	8.0	2.2	8.0	10.3	12.4	16.5	17.1	9.1	9.5	6.8		
25000	4.3		2.9	5.5	5.3	6.8	2.7				1.4		5.5	7.0		6			

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

			FUNCTION OF	5	ANGLE A	AND DIS	DISTANCE	FROM S	SOURCE) TEST	14-00	74-004-031	
0	NOISE SOURCE/SUBJECT: 1-34A AIRCRAF ENG. J85-G-54 GRUND RUND	E SOURCE/SUBJE T-38A AIRC ENG. J85-GE-5A GRUND RUND	SUBJECT: AIRCRAFT GL-5A NUP			OPERA	OPERATION: ENGINE SINGLE	RUNUP, ENGINE	75%	α E	2000	METEOROLOGY: TEMP BAR PRES REL HUMI	NON	= 59.92 = 70 0 08	9 F 1 N H G	<u>u</u>	PAGE	AIKCRAFT OPERATION PROFILE VI 18 FEB 76 PAGE F1	CODE ON CODE ON VERSION	DE 033)
018	DISTANCE	9	10	20	30	0,	50	60	7.0	ANGL		(OEGREES) 90 100	110	120	130	140	150	160	>170	180
	200	84.7	65.1	83.9	83.7	83.0	83.7	81.5	4.62	77.5	78.2	80.1	81.7	83.4	83.1	82.2	81.2	78.0	68.0	58.
	250	82.3	82.7	81.0	7	80.7	81.4	79.3	77.1	75.3	76.1	78.0	19.6	81.3	81.0	80.1	79.1	15.9	69.6	55.9
	315	79.8	80.2	76.6	78.9	78.3	79.1	77.0	74.8	73.1	74.0	75.9	77.5	79.2	76.9	75.9	76.9	73.8	63.8	53.
	200	74.5	24.9	74.0	, ,	73.3	74.2	72.4	70.1	68.3	9-69	71.5	73.1	74.8	74.5	73.4	72.3	69.3	59.3	64
	630	711.7	72.1	71.3	7	70.7	711.7	6.69	9.19	65.8	67.3	69.5	70.8	72.5	72.2	71.1	6.69	6.99	6.95	46
	906	69.8	09.5	68.5	8	69.1	69.1	4.19	65.1	63.3	6.49	8 -99	68.4	70.5	8.69	68.7	67.4	64.5	24.5	44.
	000	9 9 9	1 37		4		. 35	2 77		0			0		. 63					
	1250	9 9	63.4	62.8	62.5	62.5	63.5	62.4	59.7	57.8	20.0	51.6	63.3	65.1	64.9	63.5	62.0	59.2	49.2	39.2
	1600	60.1	64.5	59.9	59.6	59.6	60.09	59.5	56.8	54.9	57.0	58.8	60.6	62.4	62.0	60.7	59.1	200	4094	36.
	2000	57.1	57.6	57.0		2.95	57.6	56.3	53.9	51.9	54.2	55.9	57.7	59.7	59.5	57.8	56.1	53.5	43.5	33.
	2500	24.6	54.5	53.8	*	53.5	54.3	53.0	9009	48.5	51.0	52.6	9.45	9.95	56.1	9.45	52.7	50.1	40.1	30
-7	3150	20.6	51.2	50.3	6	50.0	50.6	49.3	47.0	1.44	47.5	49.0	51.2	53.5	52.7	51.1	49.2	40.4	36.4	56.4
3	0014	6.94	47.5	46.5	3	46.1	1.94	45.3	43.0	40.7	43.5	45.1	47.4	49.5	48.9	47.3	45.3	45.4	32.4	22.
-1	2300	45.8	43.4	45.3	-	41.8	45.3	6.04	38.7	36.5	39.5	40.8	43.3	45.4	44.8	43.5	41.1	38.1	28.1	18
w	6300	30.4	39.0	37.8	2	37.3	37.7	36.3	34.1	31.6	•	36.3	38.9	41.1	40.4	38.7	36.6	33.5	23.5	13.
	9000	34.4	35.2	34.1	2	33.5	33.8	35.6	30.3	28.0	31.1	35.5	34.9	37.0	36.5	34.7	35.6	59.9	19.9	6
1.	0000	30.5	31.0	34.1		5.67	29.8	28.6	26.2	24.1	27.1	28.5	30.6	32.7	32.2	30.3	28.3	26.0	16.0	9
17	12500	25.6	20.6	25.7	24.8	25.5	25.5	24.3	21.9	20.0	23.0	24.5	26.3	28.0	27.6	25.6	23.9	21.9	11.9	1.9
16	160.0	20.6	21.7	21.0	:	20.6	20.8	19.8	17.3	15.7	16.5	19.7	21.2	23.0	22.7	20.7	19.5	17.5	7.5	
2	20002	15.2	16.3	15.8	5	15.5	15.9	15.0	12.4	11.1	13.7	15.6	16.1	17.7	17.6	15.6	14.5	12.9	5.9	
25	2000	9.3	10.4	10.1	4.6	10.0	10.6	6.6	7.3	6.3	8.7	10.2	10.9	12.2	12.3	10.4	6.6	8.1		

TABLES	TONE-C	TONE-CORRECTED, AS A FUNCTION OF	4	A-WEIGHT ANGLE A	S 6	OVERALL S	SOUND LE	SOURCE ((08A)							O OMEGO	OMEGA 8.2 TEST 74-004-031	TION:	
NOISE SO T-38 ENG. GROU	ISE SOURCE/SUBJECT: 1-38A AIRCRAFT ENG. J85-GE-5A GROUND RUNUP	BJECT: IRCRAF -5A			OPERA SE	RATION: ENGINE SINGLE	RUNUP, ENGINE	75%	α d	20020	METEOROLOGY: TEMP BAR PRES REL HUMI	PRESS HUMID	= 59.92 = 29.92 = 70	IN HG		MUN UN U	AIRCRAFT OPERATION PROFILE VE 18 FEB 76	CODE	033 02020 A
DISTANCE (FEET)	,	10	20	30	0,7	5.0	9	7.0	ANGL	E COEGREES 90 100	REES)	110	120	130	140	150	160	>170	>180
200	86.2	86.5	45.2		84.2	1.48	82.4	80.1	78.4	78.8	80.7	82.3	83.4	83.6	82.2	81.7	78.0	68.0	58.0
315	83.7	81.5	80.4	80.1	79.5	80.0	2.08	75.6	73.9	74.6	76.5	78.0	79.2	79.4	77.9	79.6	73.8	63.8	53.8
00+	78.7	78.9	77.9	77.6	77.0	7.77	75.0	73.3	71.6	72.4	74.47	15.9	77.1		75.7	75.2	71.6	61.6	51.6
500	76.0	70.2	75.2	74.9	74.5	75.2	73.3	6.02	69.2	76.2	72.1	73.7	74.8	75.1	73.4	72.9	69.3	59.3	19.3
8.00	70.4	70.6	69.8	4.69	69.5	70.0	68.3	65.8	64.1	65.4	67.4	6.89	70.2		68.7	68.0	64.5	54.5	44.5
	2 63	1 1 1	0 33		9 9 9		7 23		, ,	6 2 3	0	9 9 9	67 7	67.0	6 23				
1250	64.5	64.7	64.1	63.7	63.7	9.49	65.9	60.4	58.6	60.3	62.2	63.8	65.1	65.3	63.5	62.6	59.2	49.2	39.2
1500	61.6	61.8	61.2		6.00	61.5	60.1	57.6	55.7	57.6	59.4	61.1	62.4	62.6	2.09	9.65	56.4	46.4	36.4
2000	58.6	58.9	58.5		57.9	58.5	57.5	2.45	52.7	54.8	9.99	58.5	2.65	2.65	57.8	9.99	53.5	43.5	33.5
2500	55.5	55.9	55.1		24.7	55.5	53.9	51.4	49.3	51.6	53.3	55.1	26.6	26.5	9.45	53.3	50.1	40.1	30.1
3150	52.1	55.5	51.6		51.5	51.6	50.5	47.8	45.6	48.0	49.6	51.7	53.5	53.5	51.1	1.64	40.4	36.4	26.4
0004	48.1	48.6	47.0	46.8	47.1	4.74	0.94	43.6	41.3	***	42.0	47.8	49.5	49.3	47.3	45.7	45.4	32.4	22.4
63.00	30.0	39.5	38.3		37.8	38.0	36.7	34.4	32.0	35.0	36.5	39.1	41.1	10.1	38.7	36.8	33.5	23.5	13.5
9000	34.7	35.4	34.3		33.8	34.0	32.7	30.4	28.1	31.2	32.6	35.0	37.0	36.6	34.7	32.7	59.9	19.9	6.6
			;										;	,					,
10000	30.5	31.0	30.1		4.5	29.8	28.6	2002	24.1	27.1	59.2	30.6	32.7	32.2	30.3	28.3	26.0	16.0	9.
10000	20.00	0.00	200		7.67	2000	2.47	61.3	2007	7.50	7.4.7	0.07	2000	20.00	0.00	600	6110	11.9	1.9
20000	15.2	16.3	15.8	15.0	1 5.0	15.0	15.0	17.0	12.	14.7	15.0	16.1	17.7	17.5	15.6	19.6	12.0		
25000	9.3	10.4	10.1		10.0	10.6	6.6	7.3	6.3	8.7	10.2	10.9	12.2	12.3	10.4	6.6	8.1	:	

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

NOISE SOURCE/SUBJECT: T-38A AIRCRAFT ENGINE ENG. J85-GE-5A GROUND RUNUP 10 20 20 40 40 G 60 C 70 C 70				
10 (20 (30 (50 (60 (RUNUP, 75% RPM ENGINE) METEOROLOGY:) TEMP) BAR PRESS =2) REL HUMID =) DELTA N = -3.0	= 59 F =29.92 IN HG = 70 %	AUN 01 AIRCRAFT CODE 033 OPERATION CODE 02020 PROFILE VERSION A 18 FEB 76
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0 10 20	30 40	09 000	70 80	90 100

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

E SOUNGÉ SUBJECTI (OPERATION! TEMPORE ENGINE	DISTANCE = 250 FEE	ET											!	HEGA EST 7	8.2	-031	
ANGLE (DEGREES) July 10 20 30 40 50 60 70 80 9u 100 110 1 71 69 71 69 70 73 74 75 76 76 76 79 81 73 71 73 74 75 75 76 77 76 79 81 75 75 76 77 77 78 79 81 82 86 88 89 79 78 80 80 80 81 81 84 85 86 88 89 82 83 83 83 84 84 84 85 86 86 86 89 84 85 85 85 86 86 89 85 83 83 84 84 84 85 86 86 86 89 86 83 83 84 84 84 85 86 86 86 89 79 79 78 80 80 80 80 80 80 80 79 79 78 77 77 79 79 79 80 80 81 85 86 79 79 78 77 77 79 79 79 79 80 80 81 85 86 77 77 76 77 77 79 79 79 79 80 80 80 80 78 77 77 76 77 79 79 79 79 80 80 80 85 86 78 77 77 76 76 77 79 79 79 79 80 80 80 85 86 78 78 77 77 77 79 79 79 79 79 80 80 80 85 86 70 77 77 76 76 77 79 79 79 80 80 80 85 86 71 72 72 72 73 73 75 76 77 77 77 78 77 78 78 78 82 72 73 73 74 74 76 77 77 77 77 77 77 77 77 77 78 77 82 74 66 66 66 67 70 69 70 72 77 77 77 77 77 77 77 77 77 76 77 77 76 77 76 77 76 77 76 77 77	OURCE/SUBJECT AIRGRAFT J85-GE-5A ID RUNUP	10	RATI RIM INGL	NO.		E d	2000	METE BA BA DELT	A PR	SS = = = = = = = = = = = = = = = = = =	9.92 70 0 08	N N N H G	1	RUN O AIRCRA OPERAT PROFIL 18 FEB PAGE	FT C ION C F VER 76	00E 0	33 2007 A
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AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATTERSON AFB OHIO F/G 1/2 COMMUNITY NOISE EXPOSURE RESULTING FROM AIRCRAFT OPERATIONS. VO--ETC(U) FEB 78 J D SPEAKMAN, R G POWELL, R A LEE AMRL-TR-73-110-VOL-4 AD-AUSS 702 UNCLASSIFIED 6 of 7 AD A053702 C · xingle

NOISE T		AS A	AS A FUNCTION OF ANGL	ON OF	w	AND DISTANCE		FROM S	SOURCE) TEST	TEST 74-004-031	04-031	
	T-38A ENG.	E SOURCE/SUB T-38A AI ENG. J85-GE- GROUNU RUNUP	NOISE SOURCE/SUBJECT: 1-364 AIRCRAFT ENG. J85-6E-5A GROUND RUNUP	- =		OPERATIONS TALM S SINGLE	OPERATION: TAIM CHECK, 94% SIGELE ENGINE	ENGINE	34% 3PH			METEOROLOGY TEMP 3AR PRE REL HUM DELTA N =	PRESS PRESS HUMIO	= 59 S = 29.92 0 = 70 3.0 08	LHX	÷	A PROFILE FER PAGE	RAFT ATIO ILE E9 7	CODE N CODE VERSION	DE 033)
DISTAN	DISTANCE (FEET)	7	P 7	20	30	0,4	5.0	9	20	ANGLE		(DEGREES) 90 100	110	120	130	140	150	160	170	×180
2	00	102.8	103.2	103.6			105.8	105.9		107.2		111.	113.1	115.4			117.1	114.9	92.9	71.1
21	250	100.6	_	-	***	102.		103.7	104.7			109	110.9	113.2			115.0	112.8	2.06	69
r .	315	96.0	96.0	99.1	99.6	100.	101.3	101.4	102.4	132.8	163.3	107	108.7	111.0	112.6	113.3	112.8	110.7	88.5	67.2
יוט	00	93.6						96.6	97.6				103.9				108.4	106.3	83.9	62.
9	630	91.0				92.		94.1	95.0			100	101.4	103.7		106.	105.9	104.0	81.5	58.
20	900	88.3		49.2		4 C.		91.3	92.3	92.7	93.		98.7			104.	103.5	101.7	19.9	57.1
	,					•									-					
3	1000	4.00			0		3.00	28.5	89.5	20.0				98.3	-	101	101.0	2.66	1004	24.
12	1250	95.4			83			49.4	90.4	80.9			95	95.2		66	98,3	96.6	73.7	51.
9 5	1000	**			3	01.0		92.1	83.1	33.4			200	92.1			42.4	93.8	9.02	* 1.
2	כחחח	200			-			100	(3.5	6.6			00	000		3.	35.4	600	10.10	43.
5	5500	72.8			2		15.0	74.8	76.0	76.3			82.6	85.1	86.0	. 68	88.9	87.1	63.7	38.
5	3150	000		3	2,	11.1	(1.5	100	11.9	12.3		0	18.5	81.1		82.	6.40	82.9	59.1	32.
7	200	**			02	9	6/01	2.00	*	1.19		2,	3.5	9.07		91	80.5	18.6	2005	52.62
2 2	200	2.0	900	1.10	200	01.	2.70	51.0	67.5	9 7 9	63.1		03.1	71.7		7.67	200	73.9		15.6
200	000	0			2 .	1000	20.0	1 0 0	2	2 2 2			200	60.00	65.0	6.00	67.0	66.0	17.	•
3					:	,	2		•	•				2						
10000	00	44.7	46.4	47.0	46			46.6	46.3	48.5	48.9	52.	54.8	57.		62.0	63.1	61.2	32.2	
12500	00	39.1	40.8	41.5	41			6.04	42.5	42.9	43.1		49.7	55.		57.5	58.6	56.7	25.4	
16000	00	32,3	34.5		34.9	35.9		34.3	35.9	36.2	36.3	41.	43.7	46.9	51.7	52.8	53.6	51.8	15.8	
20000	00	24.2	10	28.3	27			26.8	29.1	29.3	29.3	34.	36.5	40.		4.7.4	48.0	46.2	6.1	
25000	00	11.0	15.2		10			14.0	13.0	18.0	16.5	25.	28.3	32.2		40.7	40.9	38.9		

AS A FUNCTION OF ANCLE AND DISTANCE FROM SOURCE URCE/SUBJECT! AIRCRFT (SINGLE ENGINE			200 MODEO	
UNCE/SUBJECT: A AIRCRAFT (STAIL CHECK, 94% RPH) HETEOROLOGY: JUSS-GE-SA (STAIL CHECK, 94% RPH) HETEOROLOGY: BAN CLE ENGINE (STAIL CHECK, 94% RPH) DELTA N = -3.0 DB (STAIL ENGINE) DELTA N = -3.0 D) TEST 74-004-031	
0 10 2.0 103.9 1u3.6 104.1 104.7 105.8 105.9 106.9 107.2 108.3 112.3 113.1 115.4 1102.8 103.9 1u3.6 114.1 104.7 105.8 105.9 106.7 106.1 110.1 110.1 110.9 113.2 94.3 99.3 97.3 99.0 99.1 100.4 102.4 102.8 103.8 107.9 108.7 113.0 95.0 99.0 99.1 100.1 100.4 101.5 105.5 106.3 108.6 93.6 99.7 94.8 97.3 97.3 97.9 99.0 99.1 100.4 101.5 105.5 106.3 108.6 93.6 99.7 94.8 95.2 94.0 99.1 100.4 101.5 105.5 106.3 108.6 93.6 99.7 94.8 95.8 95.2 94.0 99.1 100.4 101.5 105.5 106.3 108.6 93.6 99.6 99.0 99.0 103.1 103.9 106.2 93.6 99.0 99.0 99.0 103.1 103.9 106.2 93.6 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99	DROLOGY:	"1""	ARCHAET CODE D ARCHAET CODE D OPERATION CODE D PROFILE VERSION 18 FEB 76	033 02007
102.8 103.9 1u3.6 104.1 104.7 105.8 105.9 106.9 107.2 108.3 112.3 113.1 115.4 100.6 1011.7 101.4 101.9 102.5 103.6 103.7 104.7 105.0 106.1 110.1 110.9 113.2 98.3 99.4 99.1 99.6 1u0.3 101.3 101.4 102.4 102.8 103.8 107.9 108.7 111.0 96.2 103.6 103.7 104.7 105.6 103.8 107.9 108.7 111.0 96.2 99.1 99.0 99.1 100.4 101.5 105.5 106.3 108.6 95.9 94.7 95.6 97.6 98.0 99.0 103.1 10	E (DEGREES) 90 100	120 130 140	150 160 170	180
98.3 99.4 99.1 99.6 100.3 101.3 101.4 102.4 102.8 103.8 107.9 108.7 111.0 936.2 99.4 99.1 99.1 101.3 101.3 101.4 102.4 102.8 103.8 107.9 108.7 111.0 936.2 97.8 97.8 97.8 97.8 97.8 98.0 101.3 103.9 108.5 106.3 108.6 93.6 99.0 99.1 101.3 11.0 103.7 103.7 103.7 103.8 93.8 93.1 93.8 93.1 93.8 93.1 93.8 93.8 93.8 93.8 93.8 93.8 93.8 93.8	108.3 112.3	+ 0	117.1 114.9 92.9	71.7
96.0 97.1 96.0 97.3 97.9 99.0 99.1 100.4 101.5 105.5 106.3 108.6 93.0 99.0 99.0 103.1 103.9 106.2 99.0 99.0 99.0 99.0 103.1 103.9 106.2 99.0 99.0 99.0 99.0 103.1 103.0 106.2 99.0 99.0 99.0 99.0 99.0 103.1 103.0 106.2 99.0 99.0 99.0 99.0 99.0 99.0 99.0 99	103.8 107.9	112.6	112.8 110.7 88.	67.2
91.0 92.1 91.8 92.3 92.9 94.0 94.1 95.0 95.4 96.5 100.6 101.4 103.7 108.3 89.4 89.2 89.6 90.2 91.3 91.3 92.7 93.8 97.9 98.7 101.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	99-11 103-1	110.4	110.7 108.6 86.	64.9
85.4 86.6 86.5 86.7 87.4 88.4 88.5 89.5 92.7 93.8 97.9 98.7 1011.1 1 1 2 2 2.4 86.6 86.5 86.7 87.4 88.4 88.5 89.5 89.9 91.9 95.9 98.3 1 82.4 86.6 83.8 83.7 83.7 84.5 85.1 82.1 82.1 83.1 83.4 84.6 84.6 84.6 89.6 92.1 76.3 77.8 77.7 77.0 78.5 79.0 78.7 79.5 79.9 81.4 85.2 86.3 88.8 77.8 77.7 77.0 78.5 79.0 78.7 79.5 79.9 81.4 85.2 86.3 88.8 77.8 77.5 77.0 77.0 77.0 78.5 79.0 78.7 77.5 81.5 82.6 85.1 64.4 65.6 66.0 65.8 65.8 65.8 77.5 77.5 81.5 82.6 85.1 64.4 65.6 66.0 65.8 65.8 65.8 67.4 67.6 69.1 71.7 59.5 61.0 01.1 60.9 61.8 62.2 61.3 62.5 62.8 63.4 67.6 69.1 71.7 59.4 65.8 56.0 55.9 56.8 57.1 56.1 57.3 57.6 58.1 62.1 67.7 66.8 49.9 51.3 51.8 51.5 52.4 52.8 57.6 58.1 62.1 62.1 63.7 66.8 44.7 46.2 47.0 46.8 47.8 48.1 46.6 48.3 48.5 48.9 57.7 59.4 62.3 39.1 40.8 41.5 41.1 42.1 42.3 40.9 42.5 42.9 43.1 47.6 49.7 52.6 33.8 37.7 59.4 67.9 32.3 32.3 35.4 34.5 35.4 34.9 35.9 36.2 36.8 41.5 41.5 43.7 46.9	96.5 100.6	165.7 107.	104.0	59.9
85.4 86.6 86.5 86.7 87.4 88.4 88.5 89.5 89.9 90.9 95.0 95.9 98.3 1 82.4 83.8 83.7 83.7 84.5 85.4 86.4 86.6 87.9 91.9 95.9 92.8 95.2 79.4 80.9 80.8 83.7 84.5 85.4 85.4 86.4 86.6 87.9 91.9 92.8 95.2 76.3 77.8 77.5 77.6 78.5 79.0 78.7 79.5 79.9 81.4 85.2 86.3 88.8 77.8 77.5 77.5 77.5 77.5 77.5 81.5 82.6 85.1 64.4 66.0 66.0 65.0 65.0 65.0 65.0 65.0 65.0	93.8 97.9	1 103.2	101.7 79.	57.1
82.4 83.8 83.7 83.7 84.5 85.4 86.4 86.6 87.9 91.9 92.8 95.2 79.4 81.9 81.8 83.7 77.5 77.5 82.1 82.1 83.1 83.4 84.6 84.6 89.6 92.1 72.8 77.8 77.5 77.5 77.5 79.0 78.7 79.5 79.9 81.4 85.2 86.3 88.8 72.8 77.5 77.5 77.5 77.5 77.5 77.5 81.5 82.6 89.1 69.6 92.1 72.8 77.5 71.5 77.5 81.5 82.6 85.1 64.4 65.0 66.0 65.0 65.8 65.6 67.1 66.2 67.4 67.7 68.5 77.4 77.5 77.4 77.5 81.5 81.1 59.5 61.0 01.1 60.9 61.8 62.2 61.3 62.5 62.8 63.4 67.6 69.1 71.7 59.4 55.8 56.8 56.8 57.1 56.1 57.3 57.6 58.1 62.1 71.7 71.7 71.7 71.7 71.7 71.7 71.7 7	9 90.9 35.0 95.	98.3 100.7 102.2	2.66	54.3
79.4 d0.9 d0.8 d0.8 d1.6 d2.1 d2.1 d3.1 d3.4 d4.6 d8.6 d9.6 g9.1 76.3 77.8 77.5 77.6 78.5 79.0 78.7 79.5 79.9 d1.4 d5.2 d6.3 d8.8 72.8 77.5 77.5 77.6 78.5 d6.3 d8.8 d6.8 d7.8 70.5 70.3 70.2 71.1 75.6 74.9 72.3 77.5 d1.5 d2.6 d5.1 d6.4 d5.0 d6.0 d6.0 d5.8 d6.6 d7.1 d6.2 d7.4 d7.7 d8.5 d7.4 78.5 d1.1 d6.9 d1.8 d2.2 d1.3 d2.5 d2.8 d3.4 d7.6 d9.1 77.7 74.0 76.6 d9.4 d5.8 d6.0 d1.1 d0.9 d1.8 d2.2 d1.3 d2.5 d2.8 d3.4 d7.6 d9.1 71.7 d9.9 d1.1 d0.9 d1.8 d1.8 d1.6 d3.4 d6.2 d7.4 d7.7 d9.6 d9.1 71.7 d9.9 d1.3 d1.8 d1.5 d1.1 d2.1 d2.8 d1.6 d3.4 d3.9 d2.9 d3.1 d7.6 d9.9 d3.1 d7.6 d9.7 52.6 d9.3 d3.2 d4.9 d3.1 d7.6 d9.7 52.6 d9.9 d3.1 d7.6 d9.7 52.6 d9.3 d3.2 d4.5 d3.1 d7.6 d9.7 52.6 d9.9 d3.1 d7.8 d3.1 d7.8 d9.7 d6.9 d3.1 d7.6 d9.7 d6.9 d3.3 d4.5 d3.9 d4.5 d3.1 d7.6 d9.7 d6.9	8 87.9 91.9 92.	7.76	98.3 96.6	51.2
76.3 77.8 77.8 77.6 77.0 78.5 79.0 78.7 79.5 79.9 81.4 45.2 86.3 88.8 72.8 74.2 74.2 75.1 75.6 74.8 76.0 76.3 77.5 81.5 82.6 85.1 72.8 74.2 77.5 74.0 77.5 81.5 82.6 85.1 64.4 65.0 66.0 65.8 65.6 67.1 66.2 67.4 67.7 68.5 77.7 74.0 78.5 81.1 59.5 61.0 01.1 60.9 61.8 62.2 61.3 62.5 62.8 63.4 67.6 69.1 71.7 54.9 55.8 56.0 55.9 56.8 57.1 56.1 57.3 57.6 58.1 67.6 69.1 71.7 74.9 51.3 51.8 51.5 52.4 52.8 51.6 53.1 53.3 53.8 57.7 59.4 62.3 44.7 46.2 47.0 46.8 47.8 48.1 46.6 48.3 48.5 48.9 52.9 54.8 57.5 59.4 62.3 39.1 43.8 41.5 41.1 42.1 42.3 40.9 42.5 42.9 43.1 47.6 49.7 52.6 32.3 34.5 35.4 34.9 35.9 36.2 36.8 41.5 43.7 46.9	4 84.6 88.6 89.	2.46	95.4 93.8	47.6
68.8 (4.5) (4.6.2 (7.1) (7.5.0 (4.6.0 (7.5.1) (7.5.3 (7.5.2 (7.5.1) 62.5 65.1) 65.8 65.1 (7.5.1) 65.8 65.8 65.8 65.8 65.8 65.8 65.8 65.8	81.4 85.2 86.	91.6	92.4 90.9	43.6
64.4 55.8 56.0 55.9 56.8 57.1 56.2 67.4 67.7 68.5 77.7 74.0 77.5 59.5 61.0 01.1 61.9 61.2 67.1 56.1 57.3 62.8 63.4 67.6 69.1 71.7 54.4 55.8 56.0 55.9 56.8 57.1 56.1 57.3 57.6 58.1 62.1 67.7 74.0 77.5 64.8 57.8 57.1 56.1 57.3 57.6 58.1 62.1 63.7 66.8 49.9 51.3 51.8 51.5 52.4 52.8 51.6 53.1 53.3 53.8 57.7 59.4 62.3 44.7 46.2 47.0 46.8 47.8 48.1 46.6 48.3 48.5 48.9 52.9 52.9 54.8 57.5 53.1 41.8 41.5 41.1 42.1 42.3 40.9 42.5 42.9 43.1 47.6 49.7 52.6 32.3 34.5 35.4 34.9 35.9 36.2 36.8 41.5 43.7 46.9	3 (1.5 81.5 82.	88.0	88.9 87.1	38.6
59.5 61.0 01.1 60.9 61.8 62.2 61.3 62.5 62.8 63.4 67.6 69.1 71.7 59.4 55.8 56.0 56.0 56.8 57.4 57.6 58.1 62.3 54.4 55.8 56.0 55.9 56.8 57.1 56.1 57.3 57.6 58.1 62.1 63.7 66.8 49.9 51.3 51.8 51.5 52.4 52.8 51.6 53.1 53.3 53.8 57.7 59.4 62.3 44.7 46.2 47.0 46.8 47.8 48.1 46.6 48.3 48.5 42.9 43.1 47.6 49.7 52.6 35.3 34.5 35.4 34.9 35.9 36.2 36.8 41.5 41.5 41.1 42.1 42.3 40.9 42.5 42.9 43.1 47.6 49.7 52.6 32.3 34.5 35.4 34.9 35.9 36.2 36.8 41.5 43.7 46.9	7 68.5 72.7 74.	76-6 70-6 80-8	80-5 78-6 54-2	25.2
54.4 55.8 56.0 55.9 56.8 57.1 56.1 57.3 57.6 58.1 62.1 63.7 66.8 49.9 51.3 51.8 51.5 52.4 52.8 51.6 53.1 53.3 53.8 57.7 59.4 62.3 44.7 46.2 47.0 46.8 47.8 48.1 46.6 48.3 48.5 42.9 43.1 47.6 49.7 52.6 39.1 40.8 41.5 41.1 42.1 42.3 40.9 42.5 42.9 43.1 47.6 49.7 52.6 32.3 34.5 35.4 34.9 35.9 36.2 36.8 41.5 41.5 43.7 46.9	8 53.4 67.6 69.	74.9	75.8 73.9	15.8
49.9 51.3 51.8 51.5 52.4 52.8 51.6 53.1 53.3 53.8 57.7 59.4 62.3 44.7 46.2 47.0 46.8 47.8 48.1 46.6 48.3 48.5 48.9 52.9 54.8 57.6 39.1 43.8 41.5 41.1 42.1 42.3 40.9 42.5 42.9 43.1 47.6 49.7 52.6 32.3 34.5 35.4 34.9 35.9 36.2 34.3 35.9 36.2 36.8 41.5 43.7 46.9	6 58.1 62.1 63.	6.69	70.9 69.0	6.5
44.7 46.2 47.8 46.8 47.8 48.1 46.6 48.3 48.5 48.9 52.9 54.8 57.6 39.1 43.8 41.5 41.1 42.1 42.3 40.9 42.5 42.9 43.1 47.6 49.7 52.6 32.3 34.5 35.4 34.9 35.9 36.2 34.3 35.9 36.2 36.8 41.5 43.7 46.9	3 53.8 57.7 59.	6.49	67.2 65.3	_
39.1 43.8 41.5 41.1 42.1 42.3 40.9 42.5 42.9 43.1 47.6 49.7 52.6 32.3 34.5 35.4 34.9 35.9 36.2 36.8 41.5 41.5 43.7 46.9	2 68.0 59.0	61.6 62.	63.1 61.2	
32.3 34.5 35.4 34.9 35.9 36.2 34.3 35.9 36.2 36.8 41.5 43.7 46.9	43.1 47.6 49.	56.8	58.6 56.	
	2 36.8 41.5 43.	51.7 52.	53.6 51.8	
24.2 26.7 28.3 27.6 28.7 28.9 26.8 29.1 29.3 29.3 34.1 36.5 40.4	3 29.3 34.1 36.	45.8 47.	48.0 46.2	
15.2 17.6 16.6 17.2 18.3 14.0 18.0 18.0 16.5 25.3 28.3 32.2	0 16.5 25.3 28.	38.5 40.	38.	

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

DISTANCE SOURCE/SUBJECT:	5A A A A A A A A A A A A A A A A A A A	20 91.1 89.0 86.9	30 30	OPERATIONS TRIM C SINGLE	TONS		-								KON	ATPURACT CODE		
OISTANGE 0 (FEET) 0 240 90.1 250 88.0 315 85.8		20 20 20 20 20 20 20 20 20 20 20 20 20 2			TRIM CHECK, 94% SINGLE ENGINE	CK, 94	% A P		2222	METEOROLOGY : TEMP BAR PRESS REL HUMID DELTA N = -3		= 59.92 = 29.92 = 70	2 H K		AIRCRAF OPERATI PROFILE 18 FEB	-8×2°	CODE O	033 02007
96.1 88.0 85.0 83.7		91.1 89.0 86.9 84.7		9	5.0	9.0	7.0	ANGLE 80		(DEGREES)	110	120	130	140	150	160	170 ,	180
882.0		86.9		91.9	95.5	92.3	93.1	93.5	2.46	98.1	6	102.4	9.401				9.62	59.6
83.7		84.7	89.1	89.8	7.06	30.1	6.06	91.3	92.0	96.0		100.3	102.5	102.4 1	102.5 1	100.7	77.5	57.5
		82.5	84.8	85.5	86.1	85.8	85.6	87.0	87.7	91.6	0 \$	96.0	98.2		+ m		73.4	53.4
* . 70		1		83.3	83.8	83.5	84.3	84.7	85.5	4.68	2	93.8	96.3		_		72.3	51.3
79.2		80.3	80.3	81.0	81.6	81.2	82.0	82.4	83.1	87.0		91.5	93.8		•		69.0	49.0
		78.3		7.8.7	2.62	78.8	9.62	83.0	80.8	94.6	S	89.1	91.5				9.99	46.8
1000 74.4	75.4	75.6	9	76.3	76.8	70.4	77.2	77.6	78.3	82.1	84.0	86.7	89.1	4.69	89.2		4.49	44.4
71.9		73.2	-	73.8	74.3	73.8	9.42	75.0	75.7	19.5	81.4	84.2	86.6	86.9	86.8		62.0	42.0
69.3	4.02	9.07	70.5	71.2	711.7	71.1	71.9	72.3	73.0	8.92	78.7	81.5	84.0	94.4	84.2	83.0	29.4	39.4
9.99		68.0	6	68.6	69.0	64.3	69.2	69.5	70.2	73.9	15.9	78.8	81.3	81.8	81.6	2	8.95	36.8
63.7		65.1	6	9.59	66.0	65.3	60.1	4 • 99	67.1	70.8	72.9	15.7	78.2	78.7	78.6		53.7	33.7
60.4	61.5	61.8	1	62.3	62.7	61.9	62.7	65.9	63.6	67.4	69.5	72.4	74.9	75.3	75.3		50.3	30.3
4930 56.8	6.75	58.5		58.6	59.0	58.5	59.0	58.5	58.9	63.6	6.59	68.8	71.2	71.5	71.6	~	46.6	26.6
	53.8	64.3	0	24.5	6.49	0.40	54.8	55.0	55.7	58.6	61,8	64.8	67.1	67.3	4.19	6	45.4	22.4
		1.64	9	54.1	50.5	48.5	50.4	50.5	51.2	55.0	57.3	60.5	62.7	65.8	63.0	•	38.0	18.0
8000 44.4		6.54	45.8	46.3	46.6	9.54	40.4	40.6	47.2	6.05	53.2	56.3	58.8	59.1	59.3	6	34.3	14.3
40.0	41.4	41.8		42.1	45.5	41.3	45.2	42.3	45.8	40.5	48.6	51.7	24.5	55.0	55.3	_	30.4	10.4
		37.3		37.6	38.0	36.7	37.7	37.8	38.2	41.7	43.8	45.8	6.64	9.09	51.0	6	26.1	6.1
30.2		32.4	35.2	32.6	33.0	31.7	32.8	32.9	33.2	36.7	38.6	41.5	6.44	45.8	46.3	45.3	21.5	1.5
		27.0		27.2	27.0	26.3	27.4	27.6	27.9	31.2	32.9	35.8	39.6	40.6	41.1	2	16.6	
18.6		21.0		21.3	21.6	20.4	21.5	21.8	25.2	25.4	26.9	29.7	33.8	35.0	35.5	9	11.5	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

0	IDENTIFICATION: IDENTIFICATION: IDENTIFICATION: OHEGA 8.2 OHEGA 8.2 OHEGA 8.2 OHEGA 8.2 OHEGA 8.2 OHEGA 8.2 OHEGA 8.2 OHEGA 8.2 OHEGA 8.2 OHEGA 8.2 OHEGA 8.2 OHEGA 8.2 OHEGA 8.2 OHEGA 8.2 OHEGA 8.2 OHEGA 8.2 OHEGA 8.2 OHEGA 9.3 OHEG	120 130 140 1	91.9 92.5 92.3 93.1 93.5 94.7 98.7 99.9 102.4 104.6 105.1 104.5 102.7 79.6 49.6 90.4 90.4 90.9 91.3 92.6 96.6 97.8 100.3 102.5 103.0 102.5 100.7 77.5 87.6 88.2 88.0 88.8 89.2 96.4 96.4 96.4 96.5 98.8 75.5	6 83.3 83.8 83.5 84.3 84.7 85.0 93.4 95.0 98.2 98.3 98.3 98.3 98.4 95.0 98.2 98.3 98.3 98.3 98.3 98.3 98.3 98.3 98.3	0 78.7 79.2 78.8 79.6 80.0 81.3 85.2 86.5 89.1 91.5 92.2 91.6 90.1 66.8	2 77.6 78.8 82.7 84.0 86.7 89.1 89.9 89.2 87.8 64.4 5 75.3 76.2 d0.1 81.4 84.2 86.6 87.5 86.8 85.4 62.0 5 72.4 73.5 77.4 78.7 84.5 84.0 86.0 84.2 82.0 69.4	9 65.6 66.0 65.3 66.1 66.4 67.6 71.4 72.9 75.7 78.2 79.2 78.6 77.4 53.7	7 62.3 52.7 51.9 62.7 62.9 64.2 58.0 69.5 72. 1 58.6 59.0 58.5 59.0 59.2 60.3 64.1 65.9 68. 0 57.5 57.0 57.0 57.0 57.0 57.0 57.0 57.	6 50.1 50.5 49.5 50.4 50.5 51.4 55.2 57.3 60.5 62.7 63.1 63.0 61.4 38.0 8 46.3 46.6 45.6 46.4 46.6 47.3 51.0 53.2 56.3 58.8 59.2 59.2 59.2 57.9 34.3	6 42.1 42. 1 37.6 38. 2 32.6 33.
0	ED OVERALION DISTANG	9,	2 91.9	8 6 5 5 5 6 5 6 5 6 6 6 6 6 6 6 6 6 6 6	78.7	6 76.3	9 69.6	1 58.6	6 50.1	41.6 42.1 42.5 37.1 37.6 38.0 32.2 32.6 33.0 26.7 27.2 27.0
1 - 41 - 7 - 1		10	91.5	63.0	18.4	75.0	69.4	58.4	49.7 49.	41.4 36.8 31.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

CGT (OPERATION METEOSOLOGY SAR PRESS = 59 F SINGLE ENGINE OPERATION DISTO	DISTANCE = 250	1								OMEGA 8.2	031	
300REGEGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	-								***************************************		RUN 02	1
DELTA N = -3.0 08 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	OISE SOURCE	/SUBJECT: AIRCRAFT		C OPERATION TAIN	ONE CHECK,			TEMP TEMP BAR PRES	= 59 F NI 59.92 IN		AIRCRAFT CODE DOPERATION CODE OF PROFILE VERSION	00E 033 00E 02007 SION A
100 100	GROUND RI	UNUP				-	•	12			18 FEB 76 PAGE 32	
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. SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

AIRCRAFI					POWE	TAKEG CRUIS APPR	FOR	NOEM NOISE		4 3 m 4 4 H	AIRCRAFT AIRCRAFT AIRCRAFT
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TABLE	SOUND PRESSUR!	10-G	SOUND PRESSURE AIR-TO-GROUND P	RE LE D PRO	PA VE	4	SPECTRA	AS	A FU	FUNCTION		OF SL	LANT	OIS	DISTANCE	(08)					IDENTIFICATION OMEGA 6.6	IFIC GA	ATI0	= z
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* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4 SAND WHICH DETERMINES THE TONE CORRECTION (C).

THE COPERATION: THE CO	TABLE: SINGLE E	SINGLE EVENT NOIS	SE AS A FUNCTION	IN OF SLANT	DISTANCE *			IDENTIFICATIONS OMEGA 6.6
ALTASPEED = 140 KNOTS DELTA N = 0.0 DB D6 JAN 76	AIRCRAFT:		TION:		, , ,	# UNIO #		
ALT** PNLT** SEL SELT** (DBA) (DBA) (PNDB) (PNDB) (DB) (DB) (DB) (DB) 113.3 113.9 126.5 127.2 112.4 113.2 111.0 111.0 111.0 111.7 126.5 127.2 112.4 113.2 111.0 110.0				= 180	TS)	A N = 0.0 08		
(DBA) (DBA) (PNDB) (PNDB) (PNDB) (DBA)	LANT DISTANCE	AL	ALT**	PNL	PNLT**	SEL	SELT**	EPNL**
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111.0 111.7 124.2 124.9 111.1 111.9 108.8 109.4 121.9 122.5 109.9 110.7 106.5 107.1 115.9 117.6 109.9 110.7 106.5 107.1 116.9 117.4 100.9 110.7 106.5 107.1 116.9 117.2 100.9 100.9 101.7 102.9 114.9 107.2 108.1 108.1 96.8 97.4 108.6 106.2 106.7 106.7 94.2 94.8 105.6 106.2 106.7 106.7 94.6 97.4 108.6 108.2 106.7 106.7 94.7 92.1 102.5 103.2 106.7 106.7 94.8 94.8 106.5 97.8 99.6 100.4 95.7 86.4 95.8 96.4 95.8 96.6 85.7 86.4 95.8 96.6 97.8 96.6 85.7 76.6 86.1 89.3 89.8 85.7 78.4 78.5 86.4 86.9 86.3 86.4 97.8 96.6 97.8 86.7 86.1 86.2 86.9 <td>200</td> <td>113.3</td> <td>113.9</td> <td>126.5</td> <td></td> <td>2</td> <td>113.2</td> <td></td>	200	113.3	113.9	126.5		2	113.2	
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99.3 100.0 111.4 112.1 104.4 105.2 1 96.8 97.4 108.6 109.2 1012.9 103.7 1 94.2 94.8 105.6 106.2 1013.7 101.3 102.1 1 94.2 94.8 105.6 106.2 1013.7 101.3 102.1 1 94.2 94.8 105.6 106.2 1013.7 101.3 102.1 1 94.2 94.8 105.6 106.2 1013.7 101.4 105.6 1 95.8 94.8 105.2 99.6 97.8 98.6 98.6 98.6 98.7 85.1 82.4 86.9 87.2 89.8 87.2 87.2 87.2 87.2 87.2 87.2 87.2 87	630	101.7	102.4	114.2	114.9	105.9	106.7	109.2
96.8 97.4 108.6 109.2 101.3 103.7 94.2 94.8 105.6 106.2 101.3 102.1 91.4 92.1 102.5 103.2 99.6 100.4 88.6 89.3 99.2 99.9 97.8 98.6 85.7 86.4 95.8 96.4 95.8 96.6 82.7 86.4 92.5 93.1 97.8 96.6 70.5 76.6 89.2 89.7 91.6 92.3 70.7 75.1 85.7 86.1 86.9 87.2 69.1 69.2 78.4 78.5 84.4 65.3 74.5 74.5 84.4 61.2 61.2 77.5 77.5 65.5 65.6 65.6 65.6 67.0 67.8 67.8	908		100.0	111.4	112.1	:	105.2	107.4
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91.4 92.1 102.5 103.2 99.6 100.4 1 88.6 89.3 99.2 99.9 97.8 98.6 85.7 86.4 95.8 96.4 95.8 96.6 82.7 83.4 92.5 93.1 95.8 96.6 79.5 80.1 89.2 89.7 91.6 92.3 76.2 76.6 85.7 86.1 89.8 72.7 73.0 82.1 82.4 86.9 87.2 69.1 69.2 78.4 78.5 84.4 65.3 74.5 74.5 78.3 78.3 57.0 65.6 65.6 77.1 75.1 52.5 52.5 60.6 77.6 77.6 47.7 47.7 55.5 55.5 67.8 67.8	1250	94.2	8.46	S	106.2	101.3	102.1	103.6
88.6 89.3 99.2 99.9 97.8 98.6 85.7 86.4 95.8 96.4 95.8 96.6 85.7 86.4 95.8 96.4 95.8 96.6 95.8 96.6 95.8 96.6 95.8 96.6 95.8 96.6 95.8 96.6 95.8 96.6 95.8 96.6 95.8 96.6 95.8 96.6 95.8 96.6 95.8 96.6 95.8 96.6 95.8 96.6 95.8 96.6 95.8 96.6 95.8 96.6 95.8 96.9 87.2 8	1600	91.4	92.1	S	103.2	9.66	100.4	101.5
85.7 86.4 95.8 96.4 95.8 96.6 82.7 83.4 92.5 93.1 93.8 94.6 79.5 80.1 89.2 89.7 91.6 92.3 76.2 76.6 85.7 86.1 89.3 89.8 72.7 73.0 82.1 82.4 86.9 87.2 69.1 69.2 78.4 78.5 84.4 65.3 65.3 74.5 74.5 78.3 78.3 57.0 65.6 65.6 65.6 75.1 75.1 52.5 52.5 60.6 71.6 71.6 47.7 47.7 55.5 55.5 67.8 67.8	2000	88.6	89.3	9	6.66	97.8	98.6	99.2
82.7 83.4 92.5 93.1 93.8 94.6 79.5 80.1 89.2 89.7 91.6 92.3 76.2 76.6 85.7 86.1 89.3 89.8 72.7 73.0 82.1 82.4 86.9 87.2 69.1 69.2 78.4 78.5 84.4 65.3 65.3 74.5 74.5 81.4 81.4 61.2 61.2 70.2 78.3 78.3 57.0 65.6 65.6 65.6 77.6 77.6 52.5 52.5 60.6 71.6 71.6 47.7 47.7 55.5 55.5 67.8 67.8	2500	85.7	46.4	5	4.96	95.8	96.6	8.96
79.5 80.1 89.2 89.7 91.6 92.3 76.2 76.6 85.7 86.1 89.3 89.8 72.7 73.0 82.1 82.4 86.9 87.2 69.1 69.2 78.4 78.5 84.2 84.4 65.3 65.3 74.5 74.5 81.4 81.4 81.4 61.2 61.2 70.2 78.3 78.3 78.3 57.0 65.6 65.6 65.6 75.1 75.1 52.5 52.5 60.6 71.6 71.6 47.7 47.7 55.5 55.5 67.8 67.8	3150	82.7	83.4	2	93.1	93.8	94.6	64.5
76.2 76.6 85.7 86.1 89.3 89.8 72.7 73.0 82.4 86.9 87.2 69.1 69.2 78.4 78.5 84.2 84.4 65.3 65.3 74.5 74.5 81.4 81.4 61.2 61.2 70.2 70.2 78.3 78.3 57.0 57.0 65.6 65.6 75.1 75.1 52.5 52.5 60.6 71.6 71.6 71.6 47.7 47.7 55.5 55.5 67.8 67.8	9004	19.5	80.1	9	89.7	91.6	92.3	92.0
72.7 73.0 82.1 82.4 86.9 87.2 69.1 69.2 78.4 78.5 84.2 84.4 65.3 65.3 74.5 74.5 81.4 81.4 61.2 61.2 70.2 70.2 78.3 78.3 57.0 57.0 65.6 65.6 75.1 75.1 52.5 52.5 60.6 71.6 71.6 71.6 47.7 47.7 55.5 55.5 55.5 67.8 67.8	2000	76.2	9.92	S	86.1	6	89.8	4.68
69.1 69.2 78.4 78.5 84.2 84.4 65.3 65.3 74.5 74.5 81.4 81.4 81.4 61.2 70.2 70.2 70.2 78.3 78.3 78.3 57.0 57.0 65.6 65.6 65.6 77.6 75.1 75.1 57.5 47.7 47.7 55.5 55.5 55.5 67.8 67.8	6300	72.7	73.0	2	82.4	9	87.2	86.7
65.3 65.3 74.5 74.5 81.4 81.4 61.2 61.2 70.2 70.2 78.3 78.3 57.0 57.0 65.6 65.6 75.1 75.1 52.5 52.5 60.6 60.6 71.6 71.6 47.7 47.7 55.5 55.5 67.8 67.8	8	69.1	6	00	78.5	+	84.4	83.7
61.2 61.2 70.2 70.2 78.3 78.3 57.0 65.6 65.6 65.6 75.1 75.1 52.5 52.5 60.6 71.6 71.6 74.6 47.7 47.7 55.5 55.5 67.8 67.8	10000	65.3	65.3	74.5	74.5	4	4.18	80.6
57.0 57.0 65.6 65.6 65.6 52.5 52.5 00.6 60.6 71.6 71.6 47.7 47.7 55.5 55.5 55.5 67.8 67.8	12500	61.2	61.2	70.2	70.2	78.3	78.3	77.4
52.5 52.5 60.6 60.6 71.6 71.6 74.6 47.7 47.7 55.5 55.5 55.5	16000	57.0	57.0	9.69	65.6	75.1	75.1	73.8
47.7 47.7 55.5 55.5 67.8 67.8	20000	52.5	52.5	9.09	60.6	71.6	71.6	69.8
	25000	47.7	47.7	55.5	55.5	67.8	67.8	65.7

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

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NO. OF RECORDS!	- 075		To a series of the	*		
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60	70 80	06	100		110 1	120 130

POWER PRID = 70 % MID = 70 % EX	TAKEOFF POWER 1.94 EPR 1.94 EPR 0.0 08 CORDS: 4 6-032-103-060176-A 6-032-103-060176-A 6-032-103-060176-A 6-032-103-060176-A	•	•			. ST	18	. ST E	×	· · · · · · · · · · · · · · · · · · ·	· ×s	. xx .	· × ·	. x		•		AIR TE		• • • • • • • • • • • • • • • • • • • •	90 100
POWER S0176-A S0176-A S0176-A	RPH 1.94 EPR 1.94 EPR 1.94 EPR 59 F REL HUMID = 70 X ECORDS: 4 5.6-032-103-060176-A		٠	•	 •	•			•		•					*	· · · · · · ·	EX •			8.0
L 7	RPM 14.94 1.94 1.94 1.94 1.94 1.94 1.94 1.94	POWER EPR	JMID = 70	60176-A				•	•	•	•				٠	•	•	•	•		
AREO 1 180	OO OF A O	TAKEOFF 1.94 180 KNOTS	REL 08	103-			•	2 * 1 5 T T		•	•				g. 6.	•	•		•		09 0

	うつどう	1-0	GROUND-TO-GROUND	ONNO	PROP	AGA	TION													~ ~	OMEGA	•	9
IRCRAFT	T-39				2000	PE A	SP 00	2 0	OWER PM = 180	1.94 KNOT	E PR		T G G G G	12 5	OROLOGY TEMP REL H	I WI	0 = 9	59 F		20000	AAC COPS COPROFI	CODE: CODE: ILE V AN 76	# 032 # 103 VER #
SLANT DISTANCE (FEET)	11	18	19	20	12	22	23	24	25	FREQ 26	UENC 27	7 BA 28 BA	200	UMBE	37	32	33	3.4	35	36 3	37	ю 90	4
200	76	4		98		20	00		20	00		*		0		α	a			4			
000	0 ;	0 1	9 6	0 0		-	0 0		- 1	5.0				o L	- 1					0 1	4 0	.	4 0
162	*	9 ;	2	4 0	25	35	0 0	, c	20	76	מיני	96	96	200	200	96	96	200	+ 0	50	מ מ	00	o .
315	2)	*	0	28		33	0		25	35		t		· ·	2	t	9	.		_	۰	t	+
004	20	12	4	80		91	98		91	93		2		-	+	-	-			80	2	-	-
200	68	20	12	18		88	83		89	90		0		6	5	σ	σ	1		n	0	80	9
630	99	68	20	92	83	96	81		87	88		80		7	9	1	9	2		2	2	+	2
800	49	99	68	73	81	83	78		82	96		9		S.	t	+	t	N		80	2	0	9
1000	62	19	99	71		80 <	15		82	84	82	84	83	2	2	2	-	6	80	2	6	2	
1250	9	62	63	29	25	17	72		61	32	80	81	81	0	6	6	80	9	4	71 6	2	5 65	53 4
1600	58	66	29	49		73	68		92	80	7.8	62	62	2	9	9	2	2	0	9	6	2	
2000	55	96	99	60		20	49		73	77	92	77	92	25	t	2	2	6	9	0	2	4	
2500	51	55	52	26	63	65	60		69	14	73	47	73	2	-	-	80	t	-	+	9	2	
3150	147	24	14	51		09	55		49	20	26	71	7.1	6	7	9	4	6	2	9	80	4	2
0004	43	42	41	45	53	55	64		29	65	99	89	24	S.	M	~	6	1	80	2	7	0	
5000	38	37	37	41		20	44		53	29	62	19	79	2	6	2	M	2	6	٥	2		
6300	32	33	32	36	43	45	04		147	24	25	66	66	•	2	-	2	6	6	2			
8000	30	31	30	34	41	43	37	0+	7 7	51	24	25	55	53	64	45	39	30 1	17				
0000	28	28	28	31		0.4	34		41	147	5.0	51		1	2	90	0	19	100				
2500	26	26	25	50		37	31		38	77	1	17		-		σ		· c					
6000	24	24	22	26		2	1 0		1	30	1 1	1						,					
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0 0	77	17	22	*	-	7,	62		20	22	20	22		2	07	•							
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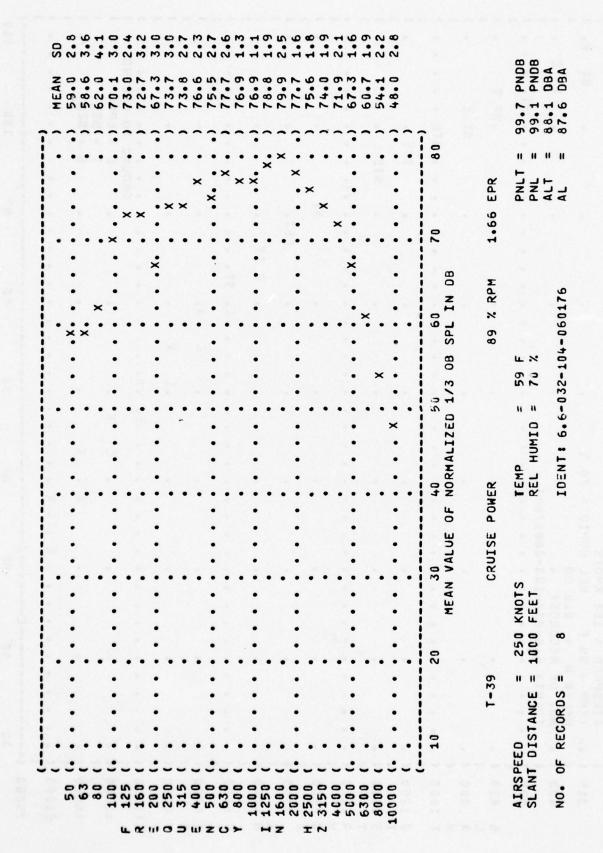
* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4 SAND WHICH DETERMINES THE TONE CORRECTION (C).

GROUND-I	GROUND-TO-GROUND P	ROPAGATION						OMEGA 6.6
AIRCRAFT:		(OPERATION: (TAKEOFF	POWER 1.94	200	METEOROLOGY: TEMP REL HUMID	= 59	L X	A/C CODE: 032 0PS CODE: 103 PROFILE VFR: A
		(AIRSPEE) = 180		DELTA N = 0.	90		
SLANT DISTANCE	AL	ALT**	PNL	PNLT**		SEL	SEL T**	EPNL **
(FEET)	(0BA)	(084)	(PN 08)	(PNDB)		(90)	(08)	(EPNDB)
200	108.3	108.9	121.5	122.1	4	07		111.5
250	106.0	106.7	119.2	119.8	•	106.1	106.9	110.2
315	103.8	104.4	116.9	117.5	1	6.40	.0	108.8
004	101.5	102.1	114.4	115.0	7	103.6	:	107.3
200	99.1	8.66	111.8	112.4	-	02.2	3.	105.8
630		97.4	109.1	109.7	1	00.8	:	104.1
800	64.3	6*46	106.3	106.9		**66	•	102.2
1000	91.7	92.3	0	03.			98.6	100.3
1250	89.1	89.7	100.1	100.8		9	6.96	98.1
1600	86.3	86.9	8.96	4.76		;	95.2	95.8
2000	83.4	84.1	93.3	93.9		5	93.3	93.2
2500	80.3	80.9	89.3	99.0		0	91.2	90.3
3150	6.97	77.6	85.1	85.7		88.0	88.8	87.1
000+	73.2	73.7	90.6	81.1		3	85.9	83.4
5000	69.0	4.69	7.5.7	76.1		3	82.5	4.67
6300		9.49	9.07	70.8		8	78.8	75.1
8000	0.09	60.2	6.59	66.1		5	75.3	71.3
10000	55.3	55.3	61.0	61.0		-	71.4	67.2
12500	50.2	50.2	55.6	55.6		67.3	67.3	62.8
16000	9.44	9.44	9.64	9.64		U.	62.7	57.8
20000	38.4	38.4	45.8	45.8		~	57.5	52.0
*****						•		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

AIRS	E "	1.94 E	PR	;					*		4	
DELT	DELTA N =	984	HUM10	2					×	*	• ·	
IDEN	T: 6.6-032-	103-	060176-	4		. :		A .	•	· · ·		
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IRCRAFT	ATOLT	200	ONLINGSTO	000	240	ATTO	2														O IN C		4	
		2					. !						-							î		,		
	T-39					OPER	CRUISE 89 %	NE POWER	A E	1.66	6 EP	œ	200	ETEOR	COROLOGY TEMP REL H	HUMI	" "	20	F X		A/C OPS PROF	CODE	1 03 1 10 VER:	NA
						A	IRSP	EE 0	= 25	0 KNOTS	210		6	ELTA	II Z	0.0	0 08				J A	12 ×	0	
SLANT DISTANCE (FEET)	17	18	19	20	- 17	22	23	24	25	FRE(QUENC 27	28 3	AND 29	NUMBE 30	3.1 3.1	32	м М	34	35	36	37	80	39	3
200	7.2	72	76	78	7 8	7 8	68			6	0	00		00	70	90		0.0	92		0	u		α
250		2.5	74	200	2 0	200	9 6			80	8 8	9.6		90	20	9 4		2 5	90			٠,		0
315	69	69	12	8 0	8 6	83	78	9 6	7 8	87	86	88	0 00	88	90	95	90	88	88	87	8 3	62	77	-
400	67	29	70	78	81	81	75			85	94	86		86	88	68		86	85		-	9		~
200	69	69	68	92	79	4	73			83	82	84		84	86	87		84	83		80	m		67
630	63	63	99	14	11	11	7.1			81	80	82		81	83	85		81	80		2	6		9
900	61	61	49	72	22	22	69			62	78	80		4	81	82		7.8	11		7	S		2
1000	29	69	62	7.0		73	29		74	11	22	78	11	77	79	80	7.8	92	14	72	2	-	24	
1250	25	25	9	68	7.1	7.1	69	72	72	14	73	75	15	75	91	11	75	73	7.1	68	63	55	14	39
1600	25	52	58	99	69	69	63		20	72	7.1	73	72	72	14	75	72	69	29	63	8	6	39	
2000	53	55	96	49	29	29	61		29	70	69	17	2.0	69	7.1	72	69	99	63	58	2	2	00	
2500	51	20	24	62	69	99	29		65	99	99	68	29	67	68	68	65	61	28	25	9	m	81	
3150	64	84	55	9	63	62	25		63	65	49	99	49	49	65	69	61	25	55	45	8	m	4	
4000	14	94	20	28	61	9	24		61	63	61	63	61	61	61	61	25	55	94	37	8	11		
2000	45	44	48	26	58	58	55		58	9	29	9	28	25	25	96	51	45	38	27	17			
6300	43	45	45	53	96	96	20		52	58	96	25	52	53	53	51	9+	38	59	15	3			
8000	0 4	40	43	51	24	53	47		53	22	25	53	51	64	48	42	39	30	18	+				
10000		38	41	64	51	51		20		21	64	64		44	45			19	2					
250		36	39	46	64	48		4 8		48	45	45		38	35		20	1						
650		33	36	11	46	45		1 1		11	41	40		31	27	20								
20000	32	31	34	41	44	42	36	41	39	40	36	34	58	23	18									
200		28	31	39	41	39		37		35	30	28		13	9									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

	AIR-TO-GROUND PROP	AGATION				~	OMEGA 6.6
AIRCRAFT: T-39		(OPERATION (CRUISE (89	POWER	1.66 EPR)	METEOROLOGY: TEMP = REL HUMID =	59 F)	A/C CODE: 032 OPS CODE: 104 PROFILE VER: A
		(AIRSPEED	0 = 250 KNOTS	TS)	DELTA N = 0.0 DB		U6 JAN 76 PAGE I2
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (08A)	PNL (PNDB)	PNLT**	SEL (08)	SELT** (08)	EPNL **
200	103.9	104.5	116.6	117.1	101.8	102.8	105.7
750	101.8	102.3	114.3	114.8	100.7	101.7	104.4
315	99.5	100.1 97.8	112.0	112,5	4.66	100.4	103.1
200	95.0	95.5	107.1	107.6	6.96	97.9	100.2
630	95.6	93.1	104.5	105.0	95.5	96.5	98.6
800	90.1	9.06	101.8	102.4	0.46	95.0	97.0
1000	87.6	88.1	99.1	7.66	95.4	93.4	95.2
1250	84.9	85.4	96.3	96.8		91.8	93.4
1600	82.1	82.7	93.3	93.8	.6	0.06	91.4
2000	79.3	79.8	90.5	2.06	87.2	88.2	89.3
2500	76.2	76.7	86.8	87.3	85.1	86.1	86.9
3150	73.0	73.6	83.3	83.8	2	83.9	4.48
000+	2.69	70.1	19.4	79.8		81.4	81.3
2000	66.1	4.99	75.3	75.6	78.0	78.6	78.0
6300	62.4	62.6	70.9	71.1	3	75.7	74.4
8000	58.5	58.6	67.0	67.1	2	72.6	71.3
10000	54.4	54.4	63.0	63.0	69.3	69.3	68.1
12500	50.2	50.5	58.5	58.5	66.1	66.1	9.49
16000	45.7	45.7	53.7	53.7	62.6	62.6	8.09
20000	41.1	41.1	48.3	48.3	59.0	59.0	56.5

** EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	GROU	ND-T	GROUND-TO-GROUND	ONNO	PROP	AG	ATION														OMEG	4	9.9	
AIRCRAFT	1-39					OPER C	CRUISE 89 % AIRSPEE	E PO	POWER RPM D = 25	1.66 U KNOT	a w	œ	2000	ETE	OROLOGY TEMP REL HU	! . E :	# OI 0	59	L×	1	A/C OPS OPS OF JOE JA	NE CO	0 4 8	32 04 8
SLANT DISTANGE (FEET)	11	18	19	50	72	22	23	24	52	FRE(AUE 27	NCY B	AND 29	NUMB	31 31	32	33	34	35	98	37	38	39	9
200	6 8 66	99	11 69	73	82	82	77		83	986	8 8 8	85		85	89	91	89	88		8 5	8 4 1 8	80	78	79
315	49	64	65	73	78	78	73		77	82	81	83		83	8 3	8 4	83	83		82	78	22	22	72
500	90 0	60	2 2 2	229	22.	23	6 6	75	75	78	77	122	78	62	81	80 80	80 8	62	78	12.	73	89 4	49	62
800	26	26	23	67	69	89	62		22	2.2	32	15		2.2	92	77	2.5	23		22	99	09	22	51
1000	54	54	54	64	63	65	56		69	72	268	73		72	7.7	75	73	71	69	63	58	56	45	34
1600	50	6 4	51	57	50	50 H	53	9 4	62	50	99	68	67	29	69	70	29	49	62	80 11	53	14	34	23
2500	t 4	47	43	100	27	200	45		22	6.6	61	63		62	63	63	09	20	53	47	17	28	13	2
3150	35	36	333	39	44	t t	40		50 0	52	2 2	57		26	56	96	52	52	47	0 to	33	18		
2000	30	27	28	34	36	35	53		39	47	20	53		25	25	51	9	40	33	25	12			
8000	22	20	3 2	27	29	28	22		31	39 4	45	£ £ £		t t	t t	1 4	34	25	13	2				
10000	20	18	19	25	26	25	19		28	35	35	37		39	37	33	25	77 2	0					
20000	14 1	t 11 a	175	17	13 4	17	4 9 7	119	171	54	31 26 26	32 26 20	230	26 18	13	12	m							
0000	:	0	•	1	2	1			3	12	3	3		•	•									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8 * BAND WHICH DETERMINES THE TONE CORRECTION (C).

GROUND-T	GROUND-TO-GROUND P	ROPAGATION						OMEGA 6.6
AIRCRAFT:		(OPERATIONS (CRUISE F	POWER 1.66	EPR	METEOROLOGY: TEMP REL HUMID	= 59 IID = 70	F ×	A/C CODE: 032 OPS CODE: 104 PROFILE VER: 4
		w u	0	15	DELTA N = 0.	0		D6 JAN 76 PAGE M2
SLANT DISTANCE	AF.	ALT**	PNL	PNLT**		SEL	SEL T**	EPNL**
(FEET)	(084)	(DBA)	(PNDB)	(PNDB)		(00)	(08)	(EPNDB)
200	6.86	98.9	111.6	111.6			97.3	100.2
250	96.8	8.96	109.3	109.3		2	96.1	6.86
315	94.5	94.5	107.0	107.0		;	6.46	9.76
004	92.3	92.3	104.6	104.6		3.	93.7	96.1
200	90.0	90.0	102.0	102.0		91.8	92.3	9.46
630	87.6	87.6	7.66	49.66		•	6.06	93.0
800	85.1	85.1	2.96	2.96		6	89.5	91.3
1000	82.5	82.5	93.9	93.9			7.	89.5
1250	79.9	6.62	6.06	6.06		85.8	86.3	87.5
1600	77.1	77.1	87.8	87.8		;	84.5	4.58
2000	74.2	74.2	84.5	84.5		82.1	5	83.1
2500	71.3	71.6	80.8	80.8		6.61		4.08
3150	67.7	67.7	76.8	76.8		77.6	78.1	77.4
7000	64.0	0.49	72.3	72.3		74.9	2	73.8
2000	6.65	6*65	67.5	67.5		71.7	2	6.69
6300	55.3	55.3	62.1	62.1		68.2		4.69
8000	50.8	50.8	56.4	56.4		2.49	;	9.09
10000	46.0	0.94	50.8	50.8			6009	56.0
12500	40.8	40.8	1.44	1.44		9	26.7	6.05
16000	35.1	35.1	37.8	37.8		5	52.0	6.44
20000	29.0	29.0	29.1	29.1		6.94	6.94	37.2
250.00	20 2	2 20	47.0	17.0		•		1 36

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

TEMP = 59 F COUNTY DELTA	.:	0 30	L. 66 EPR			•			*	m.
TOENT: 6.6-032-104-066176-A TOENT: 6.6-032-104-066176-A TOENT: 6.6-032-104-066176-A		F 550			•	-		•	. ST	·
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30 VALUE OF APPROACH P	20 30 APPROACH P = 115 KNOTS = 1000 FEET
	20 20 39 = 115 K = 1000 F

	SOUN AIR-	10-6	SOUND PRESSURE	RE LE	> 0	EL SPECTRA AGATION		AS A		FUNCTION	N 0	SLANT		DISTANCE		(80)				0100	IDENTIFICATION OMEGA 6.6	FICA A 6	410N	
AIRCRAFT	1-39					4	ROA 5	4	OWER M	1.37 KNOT	E PR		TE TE	ETEOROLOGY TEMP REL H REL H	OLOG OLOG NEL H	I I	" " 80	59 F			A/C OPS PROF D6 J	CODE CODE TLE AN 7	# 03 # 10 VER#	N A
SLANT DISTANCE (FEET)	17	1.8	19	20	12	22	23	24	25	FREQU 26	QUENCY 27 2	8 A	0.6	NUMBER 30	27	32	33	34	35	36	37	98	39	9
250	717	72 22	27 22	83	90 88 86	6 ~ 5	200		0 20 40		90		167	101	461	000	90	0 0 0	640	80 M M	+ N 0	73	62 22	77
500	65	899	0.09	76	84 82 82 82	83	824	883	4 2 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	833 8	4 8 8 2 6	83	883	833	833	886	833	83	82 79 76	7.8	92 42 20 20 20 20 20 20 20 20 20 20 20 20 20	75 68 65	69	6 9 8 8 8 8
800	61	62	3 3	22	77			. 0	. 00					100			18	· m				61	22	55
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* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8 & BAND WHICH DETERMINES THE TONE CORRECTION (C).

AIRCRAFT: T-39 T-39 SLANT DISTANCE A (FEET) (DB 250 315 944						•	OMEGA 6.6
		OPERATION: APPROACH POWER 79.5 % RPM AIRSPEED = 115	1.37 KNOT	S EPR	METEGROLOGY: TEMP = 59 REL HUMID = 70 DELTA N = 0.0 08	ш ж	A/C CODE: 032 OPS CODE: 105 PROFILE VER: A 06 JAN 76 PAGE I3
-	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT**	SEL (09)	SELT** (08)	EPNL** (EPNOB)
	101.4	101.4	114.1	114.1	100.7	101.4	104.0
	99.3	99.3	111.9	111.9	99.5	100.3	
	97.1	97.1	109.6	109.6	98.3	99.1	101.5
	6.46	6.46	107.3	107.3	97.1	97.8	100.2
500 92	95.6	95.6	104.9	104.9	8-95-8	9 • 96	98.8
	90.2	90.2	102.4	102.4	6.46	95.2	97.3
	8.2	87.8	99.8	8 • 66	93.1	93.8	1.56
1000 85	85.3	85.3	97.1	97.1	91.6	92.3	0.46
	82.8	82.8	94.3	94.3		90.8	92.2
	80.1	80.1	91.3	91.3	8	89.1	90.5
	77.3	77.3	88.1	88.1	86.6	87.3	88.0
	4.47	74.4	2.48	84.7	÷	85.4	85.6
	71.4	71.4	81.1	81.1	82.6	83.4	83.0
	68.2	68.2	77.6	77.6	80.5	81.1	80.3
	6 * 49	6.49	74.2	74.2	8	78.6	77.8
	1.4	61.4	7.0.6	70.6	2	76.0	75.0
	57.8	57.8	6.99	6.99	3	73.2	72.2
10000	54.0	54.6	2	65.9	70.3	70.3	69.1
12500 50	50.0	50.0	8	58.5	67.3	67.3	65.7
	6.54	6.54	53.9	53.9	64.1	64.1	62.1
20000 41	41.5	41.5	8	48.6	2.09	2.09	57.8
	36.9	36.9	2	42.5	~	57.2	52.7

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

250 (. 79.5 % RP	Σ "	1.37 EPR 15 KNOTS	X 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			•		*	*		•
315 (TEMP	1 59 F	REL HUM	2 02 = 01			•	*	•	×		•
000	NO.	OF RECORDS:	DS: 8	76-1			•	×		• ×		•
200			•		•	:	•	· · · ×	× · ·	•	:	•
630 (•		•			×		× .	. 60		•
800 (•	•	•			×		*	•		•
1000	•	•		•		*·	•	×	•		•	•
1250 (•	10 to	•		×	•	×				•
1600 (•	1 (1) 1 (1)			*		×		•	•		•
2009 (•	•	:		×.	:	· · ×		•		:	•
2500 (•	•	•			×	•					•
3150 (•	•		×		×	•			٠		•
0000		•	- 1	• ×	*		•					•
2000 (•		•	× · · · ·	•	:	•	:	:		:	•
6300 (•	×	×						•		•
8000		•	• ×	• ×			•					•
100001	:	× · · ·	× · · · ·		:	•	:	:	:	•	:	•
12500 (•	×	*				•		AIR P	R TO GROUND P = PNLT	2	•
16000 (٠			•			A = ALT		•
20000 (×	· · · · · ·	•		•	:	•	:	:		:	•
25000 (-	X	cu	6.0									100

T-39 APPROACH POWER 79.5 % RPM 1.37 EPR AIRSPEED = 115 KNOTS TEMP = 59 F REL HUMID = 7 0ELTA N = 0.0 D8 NO. OF RECORDS: 8 IDENT: 6.6-932-105-060176-A	*	70 % . ST.	ST E	ST.E.	. STE .	· STE ·	 . STE .	. STE .	 . xE .	· × ·	 	. EX .	. EX	£ X	• E = EPNL	
. WG . 40F	APPROAC	F REL HUMID	CORDS: 8	-9/1090-501-756-9												

CHUPAZOW

AIRCRAFT: (OPERATIONI PROPAGATION	TABLES	SOUN	P. 0	SOUND PRESSURE	RE LE	EVEL	SPECTRA		AS A	T.	UNCTION	0 P	SLANT		DISTANCE		(08) *				IDEN	IDENTIFICATION:	ATIO	=
THE	2000	GROUI	1-0N	0-GR	ONNO	PROP	AGAT	NOI												- 1	0	EGA	•	
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 39 40 40 40 40 40 40 40 40 40 40 40 40 40	AIRCRAFT	1-39					a.	PROA(# 0 %	OZ I	1.37	6		W	EORO	EMP EL H	I NI O	""			9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	S COD	w	32 05
FREQUENCY BAND NUMBER					-	- •	RSPE	0 !	=	KNOT	S		W 1	4	1	-				PA		m		
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* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

* BAND WHICH DETERMINES THE TONE CORRECTION (C).

ACH POWER		GROUND-TO-GROUND P	ROPAGATION				~ ~	OMEGA 6.6
AL ALT** PNL PNLT** SEL SELT** (DBA) (DBA) (PNDB)				POWER	EPR .	UMID	59	A/C CODE: 032 OPS CODE: 105 PROFILE VER:
AL ALT** PNL PNLIT** SEL T*** (108A) (108A) (108B)			(AIRSPEED		(SI	0 0 0 0		PAGE M3
96.4 96.4 109.1 109.1 95.7 96.4 96.5 94.3 94.5 95.3 94.3 94.5 95.3 94.3 94.5 95.3 94.1 95.7 96.4 95.5 95.3 94.5 95.3 94.5 95.5 95.5 97.5 95.5 97.5 95.5 97.5 97	SLANT DISTANCE	Ą	ALT**	A d	PNL T**	SEL		EPNL**
96.4 96.4 119.1 119.1 95.7 96.4 94.5 94.3 94.5 94.3 94.3 94.5 94.3 94.5 116.9 116.9 116.9 99.8 92.1 92.1 114.6 1104.6 99.8 93.3 94.1 95.7 96.4 95.8 87.6 87.6 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99	(FEET)	(08A)	(08A)	(PN08)	(PNDB)	(08)		(EPNOB)
94.3 94.3 106.9 106.9 94.5 95.3 94.5 92.1 92.1 104.6 104.6 993.3 94.5 95.3 94.1 104.6 104.6 993.3 94.1 104.6 104.6 993.3 94.1 104.6 104.6 993.3 94.1 92.8 87.6 87.6 97.3 97.3 97.3 97.3 97.3 97.3 97.3 97.3	200	4.96	4.96	109.1	109.1	95.7	96	
89.9 104.6 104.6 93.3 94.1 89.9 89.9 102.3 102.3 102.3 99.8 90.8 91.5 87.6 87.6 99.8 99.8 90.8 91.8 91.5 86.8 85.2 97.3 97.3 91.8 91.6 91.5 91.5 80.3 80.3 94.6 94.6 88.0 91.5	250	94.3	94.3	106.9	106.9	94.5	95.	
89.9 89.9 102.3 102.3 99.8 89.9 91.8 87.6 87.6 87.6 87.3 97.3 97.3 89.8 91.5 89.5 910.8 91.5 87.3 97.3 97.3 89.5 910.8 91.5 87.3 97.3 97.3 89.5 910.8 91.5 87.3 97.3 97.3 89.5 910.8 91.5 87.3 97.3 97.3 89.6 910.8 91.5 91.6 91.6 91.6 91.6 91.6 91.6 91.6 91.8 91.8 88.8 88.8 88.8 88.8 88.9 85.7 77.7 77.1 74.2 74.2 74.2 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77	315	92.1	92.1	104.6	104.6	93.3	• 46	
87.6 87.6 99.8 99.8 99.8 91.5 89.5 91.5 85.2 85.2 97.3 97.3 97.3 89.8 91.5 89.5 91.5 82.8 89.5 91.5 82.8 82.8 82.8 82.8 83.0 91.6 91.6 91.6 91.6 91.6 91.6 91.6 91.6	004	89.9	89.9	102.3	102.3	92.1	92.	95.2
85.2 85.2 97.3 97.3 97.3 97.3 97.5 99.5 99.5 99.5 99.2 99.2 99.2 99.2 99.2 99.2 99.2 99.2 99.2 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.1	200	87.6	87.6	99.6	99.8	8.06	91.	93.7
82.8 82.8 94.6 94.6 94.6 88.0 88.8 88.8 88.8 88.8 88.8 88.8 88	630	85.2	85.2	97.3	97.3	89.5	•06	92.2
80.3 80.8 91.8 91.8 86.5 87.3 77.7 77.7 88.8 88.8 88.8 84.9 85.7 75.0 75.0 75.0 85.6 85.6 84.9 85.7 72.1 72.1 72.1 82.1 84.0 84.0 69.1 78.3 74.2 74.2 74.2 82.1 65.7 65.7 69.7 77.0 77.7 62.0 64.8 64.8 64.8 77.0 77.7 62.0 64.8 64.8 64.8 71.2 71.6 53.4 53.4 59.2 59.2 67.7 68.0 49.1 49.2 49.5 64.6 64.6 64.6 64.6 49.4 44.4 43.0 43.0 43.0 56.6<	906	85.8	85.8	9.46	9.46	88.0	98.	90.5
77.7 77.7 88.8 88.8 84.9 85.7 77.7 77.7 77.7 88.8 88.8 88.8 88.8						,	į	
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75.0 75.0 85.6 85.6 83.2 84.0 84.8 72.1 72.1 82.1 82.1 81.4 82.1 82.8 69.1 78.3 78.3 79.3 80.0 79.3 65.7 65.7 74.2 74.2 77.7 77.7 62.0 62.0 69.7 74.3 74.9 77.7 57.9 57.9 64.8 64.8 74.9 77.6 53.4 59.2 59.2 67.7 68.0 68.0 49.1 49.2 64.6 64.6 59.0 33.9 33.9 43.0 43.0 56.6 56.6 56.6 33.9 27.9 27.9 28.5 47.2 47.2 47.2 21.4 21.4 16.2 16.2 41.7 41.7 21.4	1250	7.77	77.7	88.8	88.8	6.40	85.	86.7
72.1 72.1 82.1 82.1 82.1 82.1 82.1 69.1 78.3 78.3 78.3 79.3 80.0 79. 65.7 65.7 74.2 77.0 77.7 76. 62.0 62.0 69.7 74.3 74.9 77. 57.9 57.9 64.8 64.8 77.0 77.7 77. 57.9 57.9 64.8 74.9 77.6 68.9 68.0 53.4 59.2 59.2 67.7 68.0 68.0 68.0 49.1 54.5 54.5 64.4 64.5 59. 44.4 44.4 43.0 43.0 56.6 56.6 56.6 33.9 33.9 33.9 27.9 27.9 47.2 47.2 21.4 21.4 16.2 16.2 41.7 41.7 21.7 21.4 21.4 16.2 16.2 41.7 41.7 26.5	1600	75.0	75.0	85.6	35.6	83.2	84.	84.5
69.1 69.1 78.3 78.3 79.3 80.0 79. 65.7 65.7 74.2 74.2 77.0 77.7 76. 62.0 62.0 69.7 74.3 74.9 72. 57.9 57.9 64.8 64.8 71.2 71.6 68. 53.4 53.4 59.2 59.2 67.7 68.0 63. 49.1 54.5 54.5 64.4 64.5 59. 39.4 44.4 44.4 43.0 43.0 56.6 56.6 56.6 56.5 50.7 27. 27.9 27.9 28.5 28.5 41.7 41.7 41.7 25.	2000	72.1	72.1	82.1	82.1	81.4	82.	82.0
65.7 65.7 74.2 74.2 77.0 77.7 76. 62.0 62.0 69.7 69.7 74.3 74.9 72. 57.9 57.9 64.8 64.8 71.2 71.6 68. 53.4 53.4 59.2 59.2 67.7 68.0 63. 49.1 49.1 54.5 54.5 64.4 64.5 59. 39.4 39.4 43.0 43.0 56.6 56.6 56.6 50.7 27. 27.9 27.9 28.5 28.5 47.2 47.2 27.9 28.5 28.5 28.5 41.7 41.7 26.	2500	69.1	69.1	78.3	78.3	79.3	80.	79.2
62.0 69.7 74.3 74.9 72. 57.9 57.9 64.8 64.8 71.2 71.6 68.0 53.4 53.4 59.2 67.7 68.0 63.0 49.1 49.2 64.4 64.5 59. 44.4 44.4 43.0 43.0 56.6 56.6 50.6 33.9 33.9 35.8 35.8 52.1 47.2 27.9 27.9 28.5 28.5 47.2 47.2 21.4 21.4 21.4 16.2 16.2 41.7 41.7 21.4 21.4 21.4 16.2 16.2 41.7 26.5	3150	65.7	65.7	74.2	2.47	77.0	77.	76.1
57.9 57.9 64.8 64.8 71.2 71.6 68.0 53.4 53.4 59.2 59.2 67.7 68.0 63.0 49.1 49.1 54.5 54.5 64.4 64.5 59. 44.4 44.4 44.2 44.4 64.5 59. 39.4 39.4 43.0 43.0 56.6 56.6 56.5 33.9 27.9 27.9 28.5 28.5 47.2 47.2 21.4 21.4 21.4 16.2 16.2 41.7 41.7 21.4 21.4 21.4 16.2 41.7 41.7 26.	4000	62.0	62.0	69.7	2.69	74.3	74.	72.4
53.4 53.4 59.2 59.2 67.7 68.0 63. 49.1 49.1 54.5 54.5 64.4 64.5 59. 44.4 44.4 49.2 60.7 60.7 55. 39.4 39.4 43.0 43.0 56.6 56.6 50.5 33.9 33.9 35.8 35.8 52.1 47.2 27.9 27.9 28.5 28.5 47.2 47.2 21.4 21.4 16.2 16.2 41.7 41.7 21.4 21.4 14.7 41.7 26.	5000	57.9	57.9	64.8	64.8	71.2	71.	4.89
49.1 49.1 54.5 54.5 54.5 54.5 54.6 59. 44.4 44.4 49.2 43.0 60.7 55. 39.4 39.4 43.0 43.0 56.6 56.6 50. 33.9 33.9 35.8 35.8 52.1 52.1 43. 27.9 27.9 28.5 28.5 47.2 47.2 47.2 21.4 21.4 16.2 16.2 41.7 41.7 26.	6300	53.4	53.4	59.5	59.5	67.7	68.	63.7
44.4 44.2 49.2 60.7 60.7 55.6 39.4 39.4 43.0 43.0 56.6 50.6 33.9 33.9 35.8 35.8 52.1 52.1 43. 27.9 27.9 28.5 28.5 47.2 47.2 47.2 21.4 21.4 16.2 16.2 41.7 41.7 26.	00		49.1	24.5	54.5	4.49	9	8.65
44.4 44.4 49.2 49.2 60.7 60.7 55.6 39.4 39.4 43.0 43.0 56.6 56.6 56.6 50.8 50.8 33.9 33.9 27.9 28.5 28.5 47.2 47.2 37.2 21.4 21.4 16.2 16.2 41.7 41.7 41.7 26.8								
39.4 39.4 43.0 43.0 56.6 56.6 50.0 50.0 33.9 33.9 35.8 35.8 55.8 52.1 52.1 43.0 27.9 27.9 28.5 28.5 47.2 47.2 37.0 21.4 21.4 16.2 16.2 41.7 41.7 26.0	10000	* * * * *	***	5	7.64	0.00	•09	25.4
33.9 33.9 35.8 35.8 52.1 52.1 43. 27.9 27.9 28.5 28.5 47.2 47.2 37. 21.4 21.4 16.2 16.2 41.7 41.7 26.	12500	39.4	39.4	3	43.0	9.95	96	50.5
27.9 27.9 28.5 28.5 47.2 47.2 37. 21.4 21.4 16.2 16.2 41.7 41.7 26.	16000	33.9	33.9	2	35.8	52.1	55.	43.9
21.4 21.4 16.2 16.2 41.7 41.7 26.	20000	27.9	27.9	8	28.5	47.2	47.	37.7
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* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED.TONE CORRECTION FUNCTION.

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AIRCRAFT AIRCRAFT AIRCRAFT	NOTSE PRODUCED		DURING GROUND	TEST 74-03 AIRCRAFT CODE: PROFILE VERSIONS COMPUTER PROGRAM		PR PR EPR	SETTING, THE FOL	ALIZED DATA AS A FUNCTION OF ANGLE ANI NORMALIZED SPL AT 250 FEET E LEVELS AS A FUNCTION OF ANGLE AND DI PERCEIVED NOISE LEVEL	TONE-CORRECTED, PERCEIVED NOIS A-WEIGHTED OVERALL SOUND LEVEL TONE-CORRECTED, A-WEIGHTED OVE	A FUNCTION OF A	E D I C A A C C A A C C A A C C A A C C A	AIRCRAFT AIRCRAFT
4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6					POWER SETTING	41% RPM, 1.03 EPR 75% RPM, 1.25 EPR 85% RPM, 1.46 EPR 100% RPM, 1.93 EPF	FOR EACH POWER S	RM IS	TONE-CORRECTED, PERCEIVED NOISE LEV A-WEIGHTED OVERALL SOUND LEVEL TONE-CORRECTED, A-WEIGHTED OVERALL	NOISE LEVELS AS	0.00 A 1 C C C C C C C C C C C C C C C C C C	4661
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TABLE: NOF	NORMALIZED 1/3 OCTAVE DISTANCE =	SOUND BAND 250	D PRE FEET	S	SURE LEVEL	EL (03)	æ									DENTIF OMEGA TEST 7	001	17 ION 8	
NOISE SOURCE/S T-39A A1 ENG. J60-P-3 GROUND RUNUP	SOURCE/SUBJECTS 94 AIRCRAFT J60-34 UND RUNUP	: -		OPE II	OPERATIONS IDLE, 41 SINGLE E	FIX RP	E 3			METE TE BA RE C	A L PR	3 × 2 SS = 01	59.92 70 70 0 08	L H X		AIRCRAF OPERATI PROFILE 20 JAN PAGE	1 6 6 N	CODE CODE RSION	032 02013 A
BAND CENTER FREQ (HZ)	9	10	20	30	3	20	00	7.0 AN	SE SE	(DEGRE	EES)	110	120	130	140	150	160	170	180
56		25	96	96	25	57	25	9	62	9	62	63	65	49	65	63	65	62	
63	28	58	99	09	65	61	61	63	63	40	65	65	29	29	29	29	29	61	99
96	61	9	63	68	62	65	19	99	65	69	29	29	99	68	68	29	20	09	
100	69	29	29	11	69	99	29	20	69	29	89	99	69	7.0	7.1	69	7.1	28	
125	99	99	99	29	62	40	49	29	+9	63	65	65	49	99	29	69	69	51	
160	63	† 9	49	65	09	20	26	29	29	28	66	29	60	9	49	9	99	51	
200	60	69	90	69	56	96	99	96	99	25	28	96	25	58	59	28	61	48	
250	65	69	9	9	25	65	25	20	90	61	61	9	66	29	09	25	09	64	
315	9	60	63	63	60	09	58	58	53	29	96	58	61	9	63	25	61	84	
204	19	65	62	63	09	09	25	25	58	69	55	28	69	9	99	29	61	4	
500	9	99	19	62	58	29	25	28	29	19	28	61	63	61	69	63	66	64	
636	63	63	61	61	25	20	52	52	5.8	28	52	28	9	65	61	25	28	48	
900	63	63	62	61	53	9.8	25	58	61	61	96	9	58	52	53	25	96	† †	
1000	73	7.1	99	69	99	69	62	49	40	40	09	63	9	58	61	55	63	48	
1250	92	14	72	15	72	72	99	69	69	29	66	†9	66	29	62	25	99	20	
1600	99	99	69	89	69	63	56	62	9	61	25	9	26	52	9	53	29	47	
2000	69	89	89	29	9	61	25	19	99	09	22	58	96	24	58	55	28	64	
2500	75	75	14	72	89	69	29	69	99	63	26	61	52	96	09	96	66	94	
3156	73	7.1	20	69	29	99	58	62	10	61	96	28	51	53	28	25	28	42	
0004	7.2	73	7.1	7.1	29	99	66	63	29	62	25	53	25	92	28	51	58	43	
5000	22	8.0	11	11	7.1	73	63	29	99	62	26	53	25	52	58	24	28	44	
6300	72	92	14	73	69	29	59	63	61	29	53	28	51	53	25	51	96	41	
8000	22	78	73	73	69	69	29	49	63	61	52	28	51	24	96	20	52	41	
10000	69	89	10	10	99	10	22	58	99	60	22	28	51	25	24	14	64	36	
OVERALL	9.4	96	83	48	62	80	14	7.8	77	92	75	92	15	92	7.8	25	7.8	67	12

SOURCE/SUBJECT: G. J60-P-3A OUND RUNUP G. J60-P-3A OUND RUNUP G. J60-P-3A OUND RUNUP 99.7 102.1 99.9 99.8 94.8 97.3 99.7 97.4 97.4 92.4 97.3 99.7 97.4 97.4 92.4 97.5 94.5 94.5 94.9 89.9 97.9 94.5 97.2 94.9 84.9 97.9 94.5 97.6 97.4 97.4 97.9 94.5 97.6 97.4 97.9 94.5 97.6 97.8 97.0 94.5 97.6 97.8 97.0 94.5 97.8 97.0 94.5 97.8 97.0 94.9 97.8 97.0 97.8 97.	STANCE TAU	AND DISTANCE FROM SOURCE								OMEGA	OMEGA 8.2 TEST 74-032-001	. 1
99.7 162.1 99.9 99.8 97.9 99.8 97.9 99.9 99.8 97.9 99.9 99	OPERATION: IDLE, 41% RPM SINGLE ENGINE	RP M		3 GE	METEOROLOGYS TEMP BAR PRES REL HUMI	1 000	= 59 =29.92 = 70	A N N H		AIRCRAFT OPERATION PROFILE VE 20 JAN 76 PAGE 01	RUN 01 AFCRAFT CODE OPERATION CODE PROFILE VERSION 20 JAN 76 PAGE 01	E 032 E 02013 ON A
99.7 102.1 99.9 99.8 97.9 97.4 97.2 94.5 97.2 94.5 97.2 94.5 97.2 94.9 97.8 97.2 94.9 97.8 97.2 94.5 97.2 94.5 97.2 94.5 97.2 94.5 97.2 94.5 97.2 94.5 97.2 94.5 97.2 94.5 97.2 94.5 97.2 94.5 97.2 97.3 97.2 97.3 97.2 97.3 97.2 97.3 97.2 97.3 97.2 97.3 97.2 97.3 97.0 97.2 97.2 97.3 97.0 97.2 97.2 97.2 97.2 97.2 97.2 97.3 97.0 97.2 97.2 97.2 97.2 97.2 97.2 97.2 97.2	5.0 6	0.2 0.9	ANGLE	(DEGR 90	!	110 1	120 1	130	140	150 1	160 170	180
97.3 99.7 97.4 97.4 97.4 97.9 94.9 94.9 94.9	6.56		91.1							10		3 80.1
94.9 97.2 94.9 94.9 94.9 94.9 94.9 94.9 94.9 94	93.5	85.6 90.1	88.7			85.4 8				~	85.1 72.	
89.9 91.7 89.8 86.5 86.5 86.5 86.5 86.5 86.5 86.5 86	91.0	83.1 87.8	86.3	85.0	80.4 8		79.2	80.2	83.2		2.8 69.6	75.5
84.2 86.7 86.5 86.5 84.3 81.2 82.0 83.3 83.3 83.3 83.3 83.3 83.2 77.9 77.9 78.2 76.8 76.0 77.9 70.5 70.6 69.3 69.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5 60	85.6		81.3			78.1					77.8 64.	
84.3 85.5 83.3 83.3 81.2 82.0 80.2 79.8 77.9 78.2 76.8 76.0 70.5 70.6 69.3 68.5 60.5 60.3 68.5 60.5 61.5 60.1 59.8 50.3 55.9 54.5 54.9 51.2 50.6 48.2 49.7 45.2 43.7 41.7 43.7 33.2 28.7 24.8 28.6	82.5	75.3 80.1	78.6									
81.2 82.0 83.2 79.8 77.9 78.2 76.0 76.0 76.0 76.0 76.0 76.0 76.0 76.0	79.3		15.8					1				
74.9 78.2 76.8 75.0 77.9 77.9 78.2 78.2 76.0 77.9 77.5 76.8 76.0 76.0 76.0 76.0 76.0 76.0 76.0 76.0												
74.5 74.6 73.2 72.4 70.5 70.6 70.6 70.5 70.6 70.5 70.6 70.6 70.6 70.6 70.6 70.6 70.6 70.6	000		100									
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66.2 66.3 64.9 64.2 91.5 61.5 60.1 59.8 51.2 55.9 54.5 54.9 51.2 63.0 44.2 49.7 45.2 43.7 41.7 43.7 30.2 23.7 24.8 28.6	9,00	5 63.3	62.0		55.4 6	58.7	56.3	56.5	60.09	55.2	59.4 43.3	51.1
50.3 55.9 54.5 50.1 59.8 50.2 55.9 54.9 54.9 54.9 54.9 54.9 54.9 54.9	60.0	53.9 59.1	57.1	56.7								
50.3 55.9 54.5 54.9 51.2 50.6 46.2 49.7 45.2 43.7 41.7 43.7 38.6 37.0 34.9 37.0	55.5		53.0									
51.2 50.6 46.2 49.7 45.2 43.7 41.7 43.7 38.6 37.0 34.9 37.0	50.8	43.3 43.4	48.1						45.7			
38.6 37.0 34.9 37.0 30.2 29.7 24.8 28.6	45.3		45.3			38.3 3		34.9				
33.2 23.7 24.4 28.6	39.1		35.9	35.3		ıs					5.9	13
30.2 29.7 24.8 28.6	31.2		28.5			6					3.7	
	21.0	7.4 15.9	17.2	17.6	5.8 1	10.2 1	11.0	0.0	18.2	11.0	9.6	
1/01 14.8 /03 14.8	10	3.3	0.9	7.5			1.0		8.9	3.8		
4.0	٠.											
00000												

	AS A	AS A FUNCTION OF		ANGLE A	ND DIS	TANCE	AND DISTANCE FROM SOURCE	DUZCE) OMEGA	OMEGA 8.2 TEST 74-032-001	-001	
1-39 1-39 5800 6800	NOISE SOURCE/SUBJECT: T-39A AIRCRAFT ENG. J60-P-3A GRJUND RUNUP	JBJECT 1 VIRCRAF -3A JP	_+		OPERA	TIONS DLE, 4 INGLE	OPERATION: IDLE, 41% RPM SINGLE ENGINE			20000	METEOROLOGY: TEMP BAR PRES REL HUMI DELTA N =	LOGY: = 5 PRESS =29.9 HUMID = 7	= 59 =29.92 = 70	9 F 2 IN HG	12	AIRC DOPER PROF	RUN 01 ARCRAFT CODE 0 OPERATION CODE 0 PROFILE VERSION 20 JAN 76 PAGE E1	ODE 0	DE 032) DE 02013) ION A)
DISTANCE (FEET)	3	10	26	30	3	50	9.9	22	ANGLE 80	E CDEG	(DEGREES) 90 100	110	120	130	140	150	160 1	170	180
200	101.9	163.9	101.6	102.2	97.0	98.4	90.06	8.46	92.8	91.5	86.3	88.9	84.5	85.9	88.5			4.3	81.7
250	99.5	101.4	99.5		94.6	96.0	87.0	95.5	4.06	89.2	83.9	36.5	82.2	83.6	86.2	82.8	86.9 7	72.0	79.5
4.00	94.7	500	96.1		89.5	0.00	1.60	87.7	85.0	84.2	78.9	81.7	77.4	78.8	81.4			2.2	74.7
2.0	92.1	93.5	91.3		86.7	88.1	90.1	85.1	83.1	81.0	76.3	79.2	24.9	76.3	78.9			9	72.
630	89.3	4.06	68.3	6.99	03.7	85.1	77.	82.4	80.4	78.9	73.5	76.5	72.2	73.5	76.2			1.8	69
800	4.90	87.2	85.1		90.00	81.8	14.5	9.62	17.5	76.9	9.02	73.6	4.69	10.8	73.4			0.6	66.8
4	7 2 8	7.74	0	42.2	77.3	78.7	71.47	76.6	74 5	72.0	, 7 s	70.5	1	6.7. A	20 6	_			2.9
125.	000	50.0	74.5		7 3.8	74.6	6. A. 1	73.2	71.7	200	64.1	67.3	24.5	26.5	67.2			2.0	200
1600	76.5	70.2	75.0		70.2	70.9	64.5	9.69	67.7	66.1	4.09	63.6	60.3	61.0	63.9	60.3	64.7 4	48.1	56.7
2000	72.6		71.1	70.9	66.3	67.0	9.09	1.69	63.8	62.3	56.5	59.8	56.9	57.5	9.09	_		3.3	52.
2500	4.60		1.99		62.3	65.5	55.9	61.4	58.8	58.4	51.7	55.4	53.0	53.0	56.5	_		8.1	47.
3150	63.6		61.9		57.7	58.0	9006	50.3	54.7	53.9	+6.4	30.6	47.9	47.9	52.0			1.9	42.
0774	58.1	57.3	55.9		52.7	52.8	44.0	50.3	49.5	48.5	40.5	44.9	45.6	41.7	46.2			4.5	36.
2000	55.5	51.0	49.3	51.1	6.94	46.8	38.3	0.44	43.3	45.5	34.2	38.9	36.7	35.6	40.4	_		9.0	28.
6300	46.1	4.4.4	45.4		40.5	40.0	30.7	37.0	36.0	36.0	25.1	32.0	29.8	27.1	33.9	•	33.6		14.
8000	39.1	37.3	35.3	37.5	32.3	31.7	19.0	29.0	28.0	28.1	15.5	22.1	21.1	18.4	27.2	.0	24.1		
10000	30.5	28.7	24.8		21.1	21.0	7.4	15.9	17.2	17.6	5.8	10.2	11.0	8.0	18.2	11.0	8.6		
12500	17.1	14.8	7.3	14.8	10.3	10.7		3.3	0.9	1.5			1.0		8.9	3.8			
16000	7.0	1.0		6.		5.													
20000																			
25336																			

TABLES	A-WEIG	HTED 0	A-WEIGHTED OVERALL	SOUN	ID LEVEL	(08A)) I DENTI	DENTIFICATION	IONE	
	AS A F	AS A FUNCTION OF		ANGLE A	ND DISTANCE		FROM S	SOURCE								TES		2-001	
NOISE SOU	2 %	BJECT 1 IRCRAF 3A	-	30333	OPERATIONS IDLE, SINGLE	TION: DLE, 4 INGLE	ATION: IDLE, 41% RPM SINGLE ENGINE			20000	METEOROLOGY: TEMP SAR PRES REL HUMI DELTA N = -	LOGY: PRESS = 29 HUMID = -3.0	= 59.92 = 70 = 0 08	29 F 2 N HG		PAGE	RAFT RATION FILE VI	000 800 800	DE 032) DE 02013) ION A)
(DISTANGE ((FEET)	•	10	50	30	3	50	9	0,2	ANGLE 80		(DESREES) 90 100	110	120	130	140	150	160	170	180
230	84.6	85.5	85.6	85.6	81.4	81.7	73.9	78.4	77.4	76.3	70.8	73.9	70.6	70.7	73.9	69.0	73.8	58.3	66.2)
315	81.8	85.9	80.7	80.7	76.5	16.9	69.3	73.8	72.8	71.7		69.4	66.3	66.3	69.5	9.49	69.5	56.1	61.8
200	79.3	81.2	78.2	78.2	74.0	74.4	60.0	71.4	70.4	4.69		67.1	64.1	64.0	67.3	62.4	67.2	53.9	59.6 1
630	74.1	74.6	72.7	72.8	68.7	69.0	61.9	66.4	65.5	64.5		62.3	59.6	59.4	62.7	57.7	62.5	49.5	55.0)
999	71.4	71.6	69.8	20.0	66. ū	999	59.3	63.8	6.20	62.0		59.8	57.3	57.0	60.3	55.3	60.1	46.8	52.6)
1300	A. S. S.	6.8.4	A. A.	67.4		2 2 3	4		20.0	7	1 7 1	67.3	0	1	6 7 8	6.0	67.6	2 77	
1250	65.6	65.2	63.7	04.1		60.3	53.0	58.2	57.5	56.7	51.4	24.5	52.4	51.9	55.2	50.3	54.9	41.7	4.7.4
1600	62.6	61.9	63.5	61.0		57.2	51.0	55.3	24.7	54.0	48.6	51.8	8.64	49.3	52.6	47.7	52.2	39.0	44.7)
5000	29.5	58.5	57.1	57.8		24.0	48.0	2.29	51.7	51.1	45.7	48.9	47.1	46.5	6.64	45.0	40.64	36.2	41.8)
2530	2005	55.0	53.6	24.5		2009	P . 11	48.9	48.6	48.1	45.6	45.9	7.44	43.4	46.8	45.0	46.3	33.1	38.6)
3150	52.7	51.3	6.64	51.0		47.2	41.5	42.4	7.64	44.0	39.3	45.6	6.04	40.0	43.4	38.6	45.9	29.7	35.2)
2000	0 1	63.3	10.0	47.5	40.4	30.4	33.9	41.6	41.0	37.2	35.7	35.0	37.5	35.3	39.7	34.8	39.5	24.0	31.5
6300	40.5	38.8	37.2	34.8		35.0	29.6	33.1	33.2	32.9	27.4	30.7	28.9	27.7	31.1	26.3	30.9	17.5	22.9
00000	35.7	34.1	32.2	33.9		30.1	25.1	24.3	28.6	58.4	23.1	26.4	54.9	23.8	27.1	22.4	26.5	13.2	18.5)
	1	1		1	1	1			1						3				•
10000	30.4	50.9	26.9	28.5	25.0	24.7	20.1	23.0	23.6	23.6	18.4	21.6	50.6	19.5	22.9	18.4	21.5	8.7	13.7
16200	***	23.5	50.3	4.77	10.9	18.0	14.0	17.1	19.1	18.3	13.3	16.4	16.0	14.9	18.3	14.0	16.2	3.8	9.0
16030	17.1	10.9	14.4	15.7	15.5	11.3	8.0	10.6	15.2	15.6	6.7	10.8	10.9	10.1	13.4	4.6	10.6		3.5
50000	10.4	10.3	9.7	9.8	2.0	1.4	2.3	3.9	2.9	9.9	2.3	4.9	5.5	6.4	8.1	4.3	4.8		^
25000	5.8	3.5		1.6						.3					5.5				-
																			^

	ANCE = 250 F						74-032-0
NOISE SOURCE/ T-34A ENG. J60- GROUND RU	E SOURCE/SUBJECT: T-39A AIRCRAFT ENG. J60-P-3A GROUND RUNUP	OPER	ATION: IDLE, 41% RPM SINGLE ENGINE) METEOROLOG) TEMP BAR PR) REL HU) DELTA N =	METEOROLOGY: = 59 F TEMP = 59 F BAR PRESS =29.92 IN REL HUMID = 70 %	£	ARON 01 ARCHATT CODE 032 OPERATION CODE 02013 PROFILE VERSION A 20 JAN 76 PAGE J1
		P=PNLT		A=AL		T=ALT	
9					4		
10 01							
20 (•••	••		•			•
30 6			•				•
9	• • •		••	•••	. A.T	•	•••
A 50 C			•••	· · ·	. A . T	•	
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) 36 v	• • • • • • • • • • • • • • • • • • • •				A T		•
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170		• •		 ×	۰.	• •	•••
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		250	FEET												-	TEST 7	M	2-001	
E SOURCEZ 39A A 6. J66-P- OUNJ RUNU	SUBJECT IRCRAFT 3A	=_		0 9 9 9	RATION NGINE	RUNUN FINGIN	P, 75%	χ d d		METEC TEI BAR	N T N T N	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	29.92 70 70 80 0.8	A N N H	1	RUN 02 AIRCRAFT OPERATION PROFILE V 20 JAN 76 PAGE C2	_ w	CODE	032 02020 A
BAND CENTER FREG (HZ)	3	15	20	30	7	20	0.9	7. A	ANGLE	(DE63E	100 100	110	120	130	140	150	160	170	>180
20	62	62	63	61	63	10	63	63	99	89	69	7.1	73	92	7.8	92	25	7.0	20
63	69	65	29	99	29	29	29	68	202	7.0	73	7.4	92	80	81	62	7.8	68	48
96	68	29	69	69	69	69	20	92	7.1	72	75	22	7.8	82	83	82	80	99	94
100	68	68	7.1	7.1	7.0	7.1	7.1	7.1	73	72	14	11	62	9.4	87	83	80	99	94
125	69	69	20	69	69	69	69	7.1	73	72	14	92	11	82	98	82	4	19	14
160	11	20	72	71	22	68	69	7.1	7.1	73	47	92	29	84	98	82	80	29	47
230	73	73	52	73	22	7.1	20	20	7.	20	7.1	73	92	81	48	78	11	19	44
25.	14	15	4.	72	69	69	68	20	70	72	73	15	11	80	83	75	72	28	38
315	78	92	14	72	22	72	72	7.1	70	20	73	14	78	80	82	72	68	24	34
004	92	9/	73	14	20	72	72	7.0	60	20	72	75	9/	7.8	81	69	99	24	34
500	14	15	73	14	7.0	7.1	7.1	7.1	69	72	14	22	92	11	80	68	99	53	33
636	14	15	14	72	20	72	73	7.1	7.0	7.1	15	14	92	7.8	62	69	29	25	32
900	7.0	73	72	7.1	7.0	7.1	7.1	69	69	7.1	73	14	16	7.8	62	89	99	55	32
1000	69	71	7.1	7.1	7.0	20	72	69	20	74	7.4	92	7.8	11	7.8	99	29	25	32
1256	69	72	69	71	69	7.1	7.1	73	69	73	14	92	18	11	7.8	29	99	55	32
1600	7.1	72	20	71	7.0	71	72	20	69	73	73	75	7.8	7.8	92	29	65	55	32
2000	7.1	72	72	20	69	20	20	7.0	69	73	15	74	11	11	73	69	63	20	30
2500	7.7	71	73	7.0	69	7.0	68	69	68	7.1	7.1	71	14	14	20	61	66	47	27
3150	7.7	73	72	72	7.0	7.1	7.0	69	90	20	7.0	202	73	72	69	61	28	48	28
4600	70	16	78	52	78	78	92	73	72	7.1	72	72	73	73	68	61	29	6 4	28
5000	92	48	88	96	89	68	86	82	80	73	73	22	7.1	72	69	61	9	64	53
6306	20	60	7.1	72	69	7.1	20	99	63	99	29	29	68	68	49	52	24	45	52
03	7.0	68	69	7.0	68	8 9	29	63	62	63	19	49	99	49	62	53	53	43	23
10000	73	73	73	72	11	72	72	99	95	63	9	9	9	63	29	25	25	45	22

. SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

		AS A	AS A FUNCTION OF	STION		ANGLE	AND DI	DISTANCE	FROM	SOURCE								TEST		32-001	
2	11-16	E SOURCE/SUB T-39A AI ENG. J60-P-3 GROUND RUNUP	E SOURCE/SUBJECT: T-39A AIRCRAF ENG. J60-P-3A GROUND RUNUP	AIRCRAFT			OPER	OPERATIONS ENGINE SINGLE	AUNUP, ENGINE	75%	a T		HETEOROLOGY BENES REL HUMI	PRESS HUMIO	= 59 = 29.92 = 70	L H X	9	AIRCA OPERCA PROFI	RUN 02 AIRCRAFT CODE OPERATION CODE PROFILE VERSIO 20 JAN 76 PAGE 02	CODE CODE ERSION	032 02020
10	DISTANCE (FEET)			10	20	30	9	50	60	2	ANGLE		(DEGREES) 90 100	110	120	130	140	150	160	170	×180
	200	105.8			107.7	108.5				162.7	-	99.3		-	102.5		102.5	4.56	93.4	80.2	58.
	250	103.4				106.1				100.3	98.	6.96				-	100.3	93.3	91.2	77.8	55.4
	315	100.9	-	100.2 1	102.8	103.6	102.3	102.6	100.9	97.8	96	94.5	95.3	96.5	98.0		98.1	91.1	88.9	73.0	52.3
	500	95		•		98.1				92.4	91.2	69.3				94.2	93.4	86.2	84.0	70.4	94
	630	95.5			4.46	95.1				89.5	88.	86.5					6.06	83.5	81.3	67.6	42.
	900	4.68		88.8	91.2	91.9				86.3	85.1	83.8					86.3	80.7	78.4	2.49	38.
	1000	85.		85.3	87.7	88.3				82.9	81.	80.9			85.1			77.7	75.4	61.5	33.
-)(*)	1250	82.1		9	83.8	4.40		83.5	82.0	79.1	78.	77.8	79.5	79.	82.1	83.1		74.4	72.1	58.1	27.2
	1600	77.		77.5	19.5	80.1				75.0		74.5			78.9			70.9	9.89	54.5	16.
	2000	73			74.8	75.3				70.4	.69	70.9			75.4			67.3	65.1	49.8	5.
	2500	68.1		6.79	69.5	6.69						67.3			71.5		72.8	63.3	61.1	44.7	
	3150	63.5		80	63.6	63.8	959	65.9	62.1	9.09	60° u	62.6	64.1		67.3	68.	68.7	58.9	56.5	38.9	
	4000	58.		~	59.5	57.9						57.7		60.	62.7	63.	64.1	53.9	51.3	31.2	
	2000	53			53.0	55.4						55.4			57.6	58.	59.1	48.2	42.4	22.7	
_	6300	+0.	0		1.94		1 43.7	12.			45.4	46.6	48.1	49.5	52.0	53.	54.0	45.0	38.9	14.1	
	8000	41.	6	45.8	41.3	*****		39.5	40.3	38.1		40.7		43.6	46.1		49.5	36.5	33.1	9.6	
1	10000	35.		37.0	35.2	34.7						33.9		37.8	40.2		44.5	29.1	24.7		
-	12540	28.8			27.8	27.8	22.8	3 25.1	26.5	23.9	21.	26.1	29.8	31.0	33.8	35.5	38.9	18.7	14.1		
7	160.0	20.0			19.3	18.5					10.	14.0		22.9	25.2		31.6	8.3	3.5		
2	20000	7		8.8	10.8	7.0						2.0		9.3	13.1		25.2				
2	2000				2.2										1.0		8.3				

				,	,		J	EON	SUDACE								IES		100-20	
Ž	01SE	J60-	SUBJECT: AIRCRAFT P-3A NUP			OPER	OPERATIONS ENGINE SINGLE	RUNUP, ENGINE	75%	g E		METEOROLOGY TEMP BAR PRE REL HUM	LOGY: PRESS = 2 HUMID =	6 8	59 F 92 IN H 70 %	9	AIRCRA OPERAT PROFIL	RUN 02 AIRCRAT CODE OPERATION CODE PROFILE VERSION 20 JAN 76 PAGE E2	CODE CODE ERSION	032 02020 4 A
	DISTANCE (FEET)		2	3.6	36	9	20	9	20	ANGLE 80		(DEGREES)	110	120	130	140	150	160	170	×180
	200	109.8		112.1	113.						-	101.4	103.0			103.5	95.4	9.46	80.2	58.1
	250	107.4	106.4	109.7	110.7	109.8	109.7	107.8	104.3	103.0	98.5	99.1	100.7		101.2	101.3	93.3	92.4	77.8	55.4
	000	102.3	101.3	104.6	105							94.2	95.8			6.96	88.8	87.8	73.0	6.9
_	200	9.66	9996	101.8	102.	101.8						91.8	93.1			94.5	86.2	85.2	70.4	46.1
	630	900	92.6	98.8	66	98.8						89.5	90.3	9006		92.0	83.5	82.5	67.6	45.
	9	13.4	6.26	95.0	406	45.5		93.7	*	89.1	4.00	86.5	87.5			4.68	80.7	1.67	2.49	38.
	1900	90.0	89.0	92.3	92.	92.0	92.0	90.2	86.9	85.7	82.5	83.	34.7	85.1	86.1	86.7	77.77	76.6	61.5	33.6
_	1250	86.1	65.3	84.2	.68	88.1	88.1	46.4	83.2	82.0	19.4		31.6	42.1	83.1	83.8		73.4	58.1	27.2
_	1630	81.9	81.2	83.9	84.	83.7	83.8	82.1	79.0	77.9	76.1	77.	78.4	78.9	6.62	90.8	•	69.6	54.5	16.3
_	2000	17.4	16.7	19.5	79.	78.9	79.0	17.4	14.5	73.4	72.5	73.	74.8	15.4	16.4	17.6	_	4.99	49.8	5.5
	2500	75.5	711.7	73.9	74.	73.4	73.6	72.2	69.3	68.5	9.09	69	20.9	71.5	72.6	73.9		62.3	44.7	
	3150	67.3	67.5	90	68	67.3	67.5	66.5	2.49	2 49	54.5	65.5	2.99	67.3	68.3	8.69	•	57.8	38.9	
	300	01.0	66.1	000	011	2000	2000	000	23.0	50.3	59.0	900	61.6	1.29	63.7	0.40		52.3	31.2	
	0029	22.0	2004	1.00	25.1	5.00	24.5	24.0	75.4	21.5	73.4		20.0	27.0	28.6	59.60		1007	1.22	
	8700	42.7	43.6	42.2	1,	34.9	40.4	41.1	33.9	37.9	41.0	£3	44.0	46.1	47.9	1.64		33.3	5.6	
_																				
_	10000	35.9	37.0	35.5	34.	31.1	33.2	34.2	31.5	30.3	33.9	37.	37.8	40.5	45.1	44.5	29.1	24.7		
_	12500	24.8	30.1	27.8		25.8	25.1	56.5	23.9	21.4	26.1	59.8	31.0	33.8	35.5	38.9	18.7	14.1		
_	16000	20.0	21.8	19.3	18.	11.5	14.4	14.8	13.1	10.1	14.0	20.	55.9	25.2	28.1	31.6	8.3	3.5		
_	20200	7.9	8.0	10.9	7.	•	3.8	3.0	5.4		2.0	8	9.3	13.1	16.6	25.2				
_	25000			2.2										1.0	5.1	8.3				

	(OPERATIONS (ENGINE (SINGLE		20 20	SOURCE) OMEGA	5A 8.2 T 74-03	A 8.2 74-032-001	
30 93. 88.			RUNUP, ENGINE	75% RF	π d	20000	METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	PAESS = HUMIO = 13.0	= 59.92 = 70 • 0 08	9 F 2 IN HG 0 %	g	PROFES	RUN 02 ARCRAFT CODE OPERATION CODE PROFILE VERSION 20 JAN 76 PAGE F2	CODE	E 032)
9 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	3	5.0	6.0	7.0	ANGLE	(05	GREES)	110	120	130	140	150	160	170	×180
91.		92.7		87.0	45.7	85.5	86.4	87.2	89.2	89.5	89.6	80.6	78.7	65.5	45.
8 8		90.3		84.7	83.4	83.3	94.3	45.1	87.0	87.5	87.5	78.5	76.6	63.4	43.
9 6		87.7		82.2	81.3	81.0	32.0	85.8	84.8	85.3	85.4	16.4	74.4	61.2	41.
		05.1		19.7	78.4	78.7	19.8	80.6	82.6	83.1	83.2	74.3	72.3	29.0	39.
50		82.2		77.0	75.8	76.3	77.4	78.3	80.3	80.9	81.0	72.0	70.0	56.7	36.
76.9 76.9	75.7	7.67	74.3	7. 2	73.1	73.5	12.07	72.3	75.6	76.5	78.8	69.7	1.19	54.3	34.3
		•		2	7		0.3	•		1.01				2110	10
73.		72.5		68.2		68.8	70.1	70.9	73.1	73.7	74.1	64.8	62.8	49.3	29.
69		280		65.1		66.1	67.4	68.3	70.5	71.1	71.5	62.1	60.1	46.5	26.6
65.		64.8		01.8	61.0	63.3	1.40	9.59	67.8	68.4	689	59.3	57.3	43.7	23.
61.		60.9		58.8	57.8	4.09	61.9	65.8	6.49	65.5	66.2	26.4	54.4	40.8	20.
57.		56.8		55.5	54.5	57.4	58.8	59.8	61.9	65.5	63.2	53.2	51.3	37.5	17.
53.		53.0		51.7	51.1	54.0	9.50	50.5	58.6	59.5	0.09	8.64	48.0	34.1	14.
49.		49.1		48.0	4.2.4	50.4	52.0	55.9	55.0	55.5	50.4	46.1	44.3	30.2	10.
45.		6.44	2	43.8	43.4	40.4	47.9	48.9	6.05	51.5	52.3	45.0	40.2	26.1	.0
.0 +		40.5	1	39.4	39.0	45.0	43.5	44.5	46.5	47.1	48.0	37.7	35.9	21.7	;
36.			0	35.5	34.7	37.7	39.3	•	•	45.9	0.44	33.7	31.9	17.7	
32		31.8		30.8	30.2	32.9	34.7	35.6	37.5	38.6	39.7	79.4	27.5	1 2.5	
27.		27.0		25.9	25.3	27.8	29.8	30.6	32.4	33.5	35.1	54.9	22.9	9.0	
22.		21.7		20.7	19.9	22.2	24.4	25.2	26.9	28.3	30.1	20.1	18.0	4.5	
17.		15.9		15.0	14.2	16.1	18.6	19.3	21.0	22.6	24.7	15.3	13.1		
11.		6.5		6.9	8.0	9.7	12.2	13.1	14.7	16.7	19.0	10.7	8.4		
	8 6 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		73.4 72.2 72. 69.6 64.3 64. 61.5 64.3 64. 51.5 50.0 56. 53.5 55.0 55. 69.5 56.0 56. 60.2 60. 73.5 56.0 64. 75.3 44.0 44. 76.9 39.6 40. 36.8 35.4 36. 37.7 26.0 27. 27.7 26.0 27.	73.4 72.2 72.5 71.0 69.6 68.4 08.7 67.5 61.5 64.3 64.8 64.0 57.5 56.0 86.0 53.5 52.1 55.8 56.9 49.5 48.1 49.1 49.0 49.5 44.0 44.9 45.5 40.9 35.4 40.5 41.1 36.8 35.4 36.9 31.8 32.5 27.7 26.0 27.0 27.6 27.7 26.0 27.0 27.6 27.1 14.8 15.9 16.4 11.0 8.5 9.5 10.0	73.4 72.2 72.5 69.6 68.4 08.7 65.6 64.3 64.8 67.5 60.2 60.8 53.5 56.0 53.0 49.5 48.1 49.1 45.3 44.0 44.9 46.9 35.4 40.5 32.4 30.9 31.8 27.7 26.0 27.0 27.7 26.0 27.0 17.1 14.8 15.9 11.0 8.5 9.5	73.4 72.2 72.5 71.0 69.6 68.4 08.7 67.5 61.5 66.3 64.8 64.0 57.5 56.0 56.8 66.4 57.5 56.1 55.8 66.9 49.5 48.1 49.1 49.0 49.5 48.1 49.1 49.0 49.5 48.1 49.1 49.0 49.5 48.1 49.1 19.0 32.4 30.9 31.8 32.5 27.7 26.0 27.0 27.6 22.6 26.0 27.0 27.6 17.1 14.8 15.9 16.4 11.0 8.5 9.5 10.0	73.4 72.2 72.5 71.0 66.2 67.3 66.6 69.6 68.4 08.7 67.5 65.1 04.2 66.6 64.3 64.8 64.0 10.8 61.0 63.6 61.5 65.1 04.2 65.3 65.5 61.5 61.5 61.0 63.6 61.5 61.5 61.0 63.6 61.5 61.6 61.0 63.6 61.5 61.6 61.0 63.6 61.5 61.0 63.6 61.6 61.0 63.6 61.6 61.0 63.6 61.6 61.0 63.6 61.0 63.6 61.0 63.6 61.0 63.6 61.0 63.6 61.0 63.6 61.0 63.6 61.0 63.6 61.0 63.6 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61	73.4 72.2 72.5 71.4 68.2 67.3 68 69.6 68.4 08.7 67.5 65.1 04.2 66.3 61.0 65.5 65.1 04.2 65.5 65.1 04.2 66.5 61.0 04.2 66.5 61.0 04.2 66.5 61.5 61.0 04.2 66.5 61.5 61.0 04.2 66.5 61.5 61.0 04.2 61.5 61.0 61.5 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0	73.4 72.2 72.5 71.0 68.2 67.3 68.8 70.69.6 68.4 08.7 67.5 65.1 04.2 66.1 67.0 65.6 64.3 64.8 64.0 01.8 61.0 63.3 64.6 61.5 61.0 63.3 64.5 61.5 61.0 63.3 64.5 61.5 61.0 63.3 64.5 61.5 61.0 63.3 64.5 61.5 61.0 63.3 64.5 61.5 61.0 63.3 64.5 61.0 63.3 64.5 61.0 63.3 61.4 61.4 61.5 61.4 61.4 61.5 61.4 61.4 61.4 61.4 61.4 61.5 61.4 61.4 61.4 61.4 61.4 61.4 61.4 61.4	73.4 72.2 72.5 71.0 63.2 67.3 68.8 70.1 70.63.6 68.4 68.7 67.5 65.1 64.2 66.1 67.4 68.8 69.6 64.3 64.8 64.0 01.8 61.0 63.3 64.7 65.6 61.5 61.0 63.3 64.7 65.6 61.5 61.0 63.3 64.7 65.6 61.5 61.0 63.3 64.7 65.6 61.5 61.2 61.3 64.7 65.6 61.5 61.5 61.0 63.3 64.7 65.6 61.5 61.5 61.0 61.3 61.3 61.3 61.5 61.0 61.3 61.3 61.3 61.3 61.3 61.3 61.3 61.3	73.4 72.2 72.5 71.0 68.2 67.3 66.8 70.1 70.9 73.1 73.6 69.6 68.4 08.7 67.5 65.1 04.2 66.1 67.4 68.3 70.5 71.0 65.6 64.3 64.8 64.0 01.8 61.0 63.3 64.7 65.6 67.8 68.3 70.5 71.0 65.6 64.3 64.8 64.0 01.8 61.0 63.3 64.7 65.6 67.8 68.9 61.9 61.5 50.0 50.8 60.9 65.8 60.0 61.9 65.8 60.0 65.8 60.0 65.8 65.0 65.8 65.0 65.8 65.0 65.8 65.0 65.8 65.0 65.8 65.0 65.8 65.0 65.8 65.0 65.8 65.0 65.8 65.0 65.8 65.0 65.8 65.0 65.8 65.0 65.8 65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0	73.4 72.2 72.5 71.4 66.2 67.3 66.8 70.1 70.9 73.1 73.7 74. 69.6 68.4 08.7 67.5 65.1 04.2 66.1 67.4 68.3 70.5 71.1 71. 65.6 64.3 64.8 64.4 01.8 61.0 63.3 04.7 65.6 67.8 68.4 68.6 61.5 61.2 61.2 61.8 61.4 61.9 62.8 61.9 62.5 61.8 61.2 61.8 61.4 61.9 62.8 61.9 62.5 61.8 61.2 61.8 61.4 61.9 62.8 61.9 62.5 61.8 61.9 62.5 61.8 61.9 62.8 62.8 61.9 62.8 61.9 62.8 61.9 62.8 61.9 62.8 61.9 62.8 61.9 62.8 61.9 62.8 61.9 62.8 61.9 62.8 62.8 61.9 62.8 62.8 61.9 62.8 62.8 62.8 62.8 62.8 62.8 62.8 62.8	73.4 72.2 72.5 71.0 63.2 67.3 68.8 70.1 70.9 73.1 73.7 74.1 64.8 69.6 68.4 68.3 70.5 71.1 71.5 62.8 69.4 68.3 70.5 71.1 71.5 62.8 65.6 64.3 64.8 64.0 01.8 61.0 63.3 64.7 65.6 67.8 68.4 68.9 59.6 61.5 60.2 60.8 61.9 65.9 61.9 62.8 64.9 65.5 66.2 56.8 61.2 60.8 61.9 62.8 64.9 65.5 66.2 56.8 61.5 60.4 61.9 62.8 64.9 62.8 64.9 62.5 65.2 56.8 61.2 56.0 56.9 55.2 57.8 61.9 62.8 64.9 62.5 65.2 56.8 64.9 59.8 50.1 62.8 64.9 62.5 65.2 56.8 64.9 65.9 56.0 62.8 64.9 62.8 64.9 62.8 64.9 62.8 64.9 62.8 64.9 62.8 64.9 62.8 62.8 62.8 62.8 62.8 62.8 62.8 62.8	73.4 72.2 72.5 71.0 63.2 67.3 68.8 70.1 70.9 73.1 73.7 74.1 64.8 69.6 68.4 68.7 67.5 65.1 64.2 66.1 67.4 68.3 70.5 71.1 71.5 62.8 65.4 68.8 64.3 64.8 64.9 61.0 63.3 64.7 65.6 67.8 68.4 68.9 59.6 61.5 60.2 56.8 61.2 60.8 61.9 62.8 62.8 62.8 62.8 62.8 62.8 62.8 62.8	73.4 72.2 72.5 71.0 63.2 67.3 68.8 70.1 70.9 73.1 73.7 74.1 64.8 62.8 69.6 68.4 68.3 70.5 71.1 71.5 62.1 60.8 69.6 68.4 68.3 64.8 64.3 64.8 64.0 21.8 61.0 63.3 64.7 65.6 67.8 68.4 68.9 59.3 57.6 61.5 61.2 61.8 61.0 63.3 64.7 65.6 67.8 68.4 68.9 59.3 57.6 61.5 61.2 61.8 61.4 61.9 62.8 64.9 65.5 66.2 56.4 54.8 53.5 55.0 56.8 56.9 59.3 57.4 58.8 58.9 59.8 61.9 65.5 66.2 56.4 54.8 53.5 55.1 53.0 53.2 53.2 53.2 53.2 53.2 53.2 53.2 53.2

	AS A	FUNCTION OF ANGLE	I OF A		SIC ONA	DISTANCE	FROM S	SOURCE								TEST	74-032-001	2-001	
010	OURCE/ 9A . J60- UND RU	SUBJECT: AIRCRAFT P-3A NUP			OPER	OPERATIONS ENGINE SINGLE	RUNUP, ENGINE	75%	R P H		METEOROLOGYS TEMP BAR PRES REL HUMI	PRESS HUMID	= 59.92 = 70 = 70	2 IN HG		PROFE PAGE	AIRCRATION CODE OPERATION CODE PROFILE VERSION 20 JAN 76 PAGE G2	CODE	032 02020
DISTANCE (FEET)	3	97	50	36	9	50	6.0	0,2	ANGLE		(DEGREES) 90 100	110	120	130	140	150	160	170	>180
200	94.3		6.96		97.5	97.3	95.0	91.1	49.7	87.1	87.8	89.1	89.2	9.68	2.06	90.8	6.61	65.5	45.5
250	91.9		4.46	95.8	95.0	6.46	95.6	88.7	4.78	8.40	95.6	86.3	87.0	87.5	88.6	78.5	77.8	63.4	43.4
315	4.00	0 0	91.9	2.50	24.5	92.3	90.1	80.0	35.	95.00	4 . 4	34.0	84.0	85.3	60.0	76.4	12.1	61.2	41.
500	84.1		86.5		87.0	86.8	84.7	81.1	79.9	77.9	78.8	80.1	80.3	80.3	82.1	72.0	71.3	56.7	36.1
630	81.2		83.5		83.9	83.8	81.8	78.3	77.1	75.5	76.4	77.7	78.0	78.5	79.8	69.7	69.0	54.3	34.
830	78.2		80.3		90.6	90.5	78.7	4.52	74.2	73.0	73.9	75.3	15.6	70.1	27.5	67.3	66.5	51.9	31.9
		•	,			;									;		;		
Tree	71.0		6.0		1101	11:1	10.4	5.5	11.5	***	1.0	200	13.1	13.1	12.1		0.40	5.64	53
16.50	0 1 1	0 1	200	7.00	200	2.0	6.17	1.60	2.00	10	0 0	1.00	610	11.1	20.07	1 0 7 0	4 0 10	10.04	22
2330	9.59		25.0	66.1	55.1	65.4	200	62.6	9 20	62.0	63.0	64.6	9,0	65.5	67.3	56.4	55.7	40.4	20.8
2500	61.5		62.0		01.0	61.4	61.3	59.5	58.5	56.9	60.2	61.6	61.9	62.5	64.3	53.2	52.6	37.5	17.
3150	57.9		500		57.0	57.0	57.7	55.8	55.1	55.6	6.95	58.3	58.6	59.5	61.0	8.64	49.2	34.1	14.1
4000	53.5	54.1	53.4		52.1	52.8	53.1	51.2	50.6	51.7	53.0	54.4	55.0	929	57.2	46.1	45.3	30.5	10.
2000	48.0	49.5	48.3		6.94	47.7	48.2	46.3	45.8	4.24	48.7	20.0	50.9	51.5	53.0	45.0	41.0	26.1	6.1
6330	42.7	44.0	43.0	42.7	41.5	45.3	6.24	41.0	40.6	42.7	44.1	45.2	46.5	47.1	48.4	37.7	36.4	21.7	1.1
8000	37.9	39.3	38.1		36.4	37.3	37.8	30.0	35.5	38.0	39.6	40.6	45.5	45.9	44.2	33.7	32.1	17.7	
								;	,				:						
10000	33.6	2000	56.9	36.4	200	31.3	32.2	30.0	36.2	32.9	34.	35.6	37.5	30.4	39.	4.67	20.00	13.5	
1000	2000	63.0	2000	-			0.72	6000	2000	0.12	6.3	0.00		2000	1000	6.40	6.22		
10000	200		73.6	0.77	0.07	7117	7.77	1007	19.5	7.77	***	7.67	200	5000	30.1	1007	10.		
2000	• • • •		11.00			12.3	10.	12.0	14.6	1001	0.01	13.0	21.0	9.77	1.47	120	1001		
77007	16.5	15.3	11.5	11.0	0.0	6.6	70.0			9.	7.71	13.1	14.	10.0	19.0	10.7	•		

10	DISTANCE = 250 F	FEET				SA 8.2
NOISE SOURCE T-39A ENG- J6 GROUND	SE SOURCE/SUBJECT: T-39A AIRCRAFT ENG. J60-P-3A GRJUND RUNUP	S E E	RUNUP, 75% RPH ENGINE) METEOROI) TEM) BAR) REL	METEOROLOGY: TEMP = 59 F BAR PRESS =29.92 IN HG REL HUMID = 70 %) RUN 02) AIRCRAFT CODE 032) PROFILE VERSION A) 20 JAN 76) PAGE J2
		P=PNLT		A=AL	T=ALT	
•			•		4	4
, ,						
2 02						• • •
30						
9					. 4	
0 A N	•		•		• · ·	•
9 9					AT	
L 76	•••		••		A T.	
I 80				•		•
z		•			•	• •
26 0					A	•
100			•		. A T .	
R 110	• •		• •		A	• • •
E 120					· · · · · · · · · · · · · · · · · · ·	
136	•••		• •		. • · · · · · · ·	•••
140			• •		A T.	•••
156					Х.	
160	•••		• •			•••
170			• •	• •	• • •	•
24.8					•	
						(

. SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

10	1/3 OCTAVE DISTANCE =	BAND 250	FEET	SSURE	. רב אבר	90										DENTIFICATIONS OMEGA 8.2 TEST 74-032-00 RUN 03	FICAT 8.2 74-03 03	10N 8	
96.39 00.09	SOURCE/SUBJECTS A AIRCRAFT J60-P-3A ND RUNUP			OPER SI	RATIONS NGINE R INGLE E	A SUNUP ENGIN	, 35% E	g Z		F H B K J	OROLOGY MP RESS L HUMID	3 88 8	59.92 70	FIX NIX	9	AIRCRAFT OPERATIC PROFILE 20 JAN 7	. Z > 9	CODE CODE RSION	03
BAND CENTER FREG (HZ)	0	10	20	30	9	50	3	A S AN	GLE 83	OEGRE 90	ES)	110	120	130	140	150	160	170	1 7
20	9	69	29	29	9	99	29	69	75	11	7.4	7.4	11	80	83	83	75	74	
63	68	20	69	7.1	69	6 8	7.1	72	11	14	92	78	81	93	18	98	73	72	
90	20	72	72	73	7.0	7.1	11	14	11	75	7.8	80	83	87	68	87	73	69	
100	72	73	14	11	72	73	73	92	11	92	18	81	9.4	89	95	68	14	70	
125	22	73	75	14	1	73	73	15	92	92	2.8	81	85	68	91	89	14	68	-
160	2:	22	9 :	22	2	23	72	92	8 1	62	81	81	82	06	92	06	78	73	
000	200	20	0 4	0 0	2 2	2,0	2,5	2,2	2	9,0	200	2 5	*	200	000	200	22	60	
315	0.80	80	0 6	280	7.	2 2	73	9 2	2 2	2.0	77	7.9	8 9	2 4	87	16	7.7	2 4	
00+	62	81	7.8	62	7.4	73	73	92	16	16	15	78	81	81	98	87	72	65	7
200	7.8	7.8	7.8	80	17	73	14	92	92	78	77	80	80	62	63	83	7.0	63	-
630		92	7.8	7.8	14	73	73	7.8	92	78	91	80	62	64	81	81	69	62	
900	92	92	18	78	92	74	74	7.8	77	19	92	81	7.8	92	7.8	78	29	9	
1000	75	14	11	11	16	73	73	7.8	7.8	80	7.8	82	91	92	62	29	29	66	
1250	73	52	15	11	75	7.5	73	78	62	81	80	83	15	15	11	79	99	59	
1600	1.4	11	75	78	16	14	14	62	8.0	80	7.8	83	75	11	11	78	69	22	.,
2002	52	92	18	92	1.4	73	73	11	78	62	28	83	15	11	92	62	69	28	,,,
2500	75	16	62	78	14	22	15	62	11	11	92	81	72	15	73	75	49	99	۳,
3150	11	11	52	78	14	1.	73	11	76	11	92	62	7.1	73	73	74	62	24	1,,
4000	92	11	92	18	92	15	73	11	92	7.8	7.8	81	72	73	73	72	62	96	۳,
5000	99	89	93	06	96	88	29	84	85	62	7.8	7.8	71	7.1	69	7.0	61	55	1-,
6300	82	81	85	81	82	81	62	11	11	15	74	75	6.8	20	29	99	25	64	
8000	7.4	73	73	14	11	7.1	68	7.0	69	20	2.0	72	69	99	63	61	53	**	~
10000	7.4	7.3	92	22	7.3	7.2	69	69	29	99	99	29	60	99	29	96	47	39	-
OMES ALL					,	,		i				;	,	,			,		,

. SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

AS A FUNCTION O NOISE SOURCE/SUBJECT: 1-39A AIKGRAFT ENG. J60-P-3A GROUND RUNUP DISTANCE 0 10 2 (FEET) 0 10 2 200 109.4 109.6 112 250 107.6 107.2 110 315 104.5 104.8 107	AS A FUNCTION														-			
NOISE SOURCE/SU ENG. J60-P- GROUND RUNI DISTANCE 0 (FEET) 0 200 169-4 256 107-6 315 104-5		9	ANGLE A	AND DISTANCE		FROM SO	SOURCE								TEST	74-032-001	100-2	
ISTANCE (FEET) 200 250 315	UBJECTI AIRCRAF -3A JP	-		OPERATIONS ENGINE SINGLE		RUNUP, ENGINE	85%	α σ Σ	20000	METEOROLOGY: TEMP BAK PRES REL HUMI	PRESS HUMID =	29.	59 F 92 IN H 70 %	9	PROF.	AURAPI OS AUGURA OS	C00E C00E RSION	032 02018 N A
	07	70	30	0,	50	6.0	2.0	ANGLE		(DEGREES) 90 100	110	120	130	140	150	160	170	180
	109.6	112.8	110.7					197.7	105.5		137.9	103.1	104.9	106.5	107.0	93.6	6.98	65.8
	107.2		108.3		105.8 1	135.1 1		105.3	103.1		.0	100.8	102.8	104.3	104.9	91.4	84.5	63.4
			105.8	104.6			102.3	102.9	100.7			99.6	160.6	102.2	102.7	89.1	85.3	60.9
-	102.2		133.5	1.2.0	100.1	6.66		100.3	98.5		100.8	96.3	98.3	69.6	100.5	86.8	80.0	58.3
	4.66		100.5	39.5	6.26			94.6	92.6			93.9	6.56	97.5	98.2	84.4	17.6	55.5
	96.5	2		96.2	6.46	2 ** 6		2 ** 6	95.9			91,3	93.3	95.0	95.7	82.0	4.9	52.7
800 92.9		96.3	4.46	93.0	91.7	0	91.1	91.0				88.7	90.6	95.4	93.1	19.4	72.4	40.4
10.00 89.5	89.9	92.8	90.6	6.68	88.2	37.6	87.7	38.3	87.2	96.6	90.1	85.8	87.7	89.7	4.06	76.7	7.69	46.2
	86.1	84.9		85.7	04.3	83.7	84.1	9.40	84.1	93.5	87.1	83.0	84.6	86.9	87.5	73.6	66.5	42.2
1600 81.5		84.6	83.0	81.4	80.1	19.62	80.7	40.7	80.9	80.2	83.8	6.62	81.3	83.9	84.6	70.4	63.2	38.0
		6.62	78.5	1.91	15.4	6.42	76.9	77.2	77.4	76.6	80.3	76.7	77.9	80.7	81.4	67.2	59.8	33.2
	72.4	7 4.7	73.4	71.5	70.1	69.9	72.8	73.4	73.6	72.7	16.4	72.8	73.9	76.7	77.5	63.1	55.5	24.2
		69.1	63.8	66.1	2.49	64.0	68.4	69.1	69.5	68.3	72.2	68.5	9.69	72.3	73.1	58.5	20.4	13.9
		63.9	64.3	61.3	59.8	6.65	63.7	64.4	64.8	63.6	67.5	64.0	65.0	4.19	68.2	53.4	44.8	3.6
		58.4	58.9	56.1	24.4	54.5	59.6	58.3	59.8	58.5	65.5	58.9	6.65	62.4	62.7	47.6	38.7	
		52.7		50.5	48.0	48.3	52.8	53.5	54.5	53.0	56.9	53.6	54.5	57.1	57.4	41.7	31.6	
9	47.0	47.5	48.6	44.5	45.3	45.2	47.2	47.2	48.7	47.4	51.5	0.64	8 .64	55.9	53.2	36.1	23.5	
				9	, ,,,	, ,,				•	6 97							
125.6	25.2	25.0		2000	200	2000	2014	240.	* * * *	40.0	79.6	42.0	* 0	7.04	* 0 *	23.0	1303	
		28.7		22.	1 8 4	10.01	2 - 2	26.0	0 0	2 4 5	24.0	24.0	30.0	27.	27.5	1017	•	
2 mg 17.6		17.8	20.7	7.9	0 0	7.0	13.1	12.3	16.9	13.9	21.9	21.6	22.8	29.8	30.8			
25006 7.4	8.1	6.9	8.1						5.4	1.9	8.0	7.4	6.9	17.2	20.5			

SPL DATA WERE EXTRAPOLATED FOR THIS ANSLE.

NOISE SOURCE/SUBJECT: 1-394 AIRCRAFT ENG. J60-P-34 GROUND RUNUP DISTANCE 0 10	111 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SOURCE/SUBJECT: 39A 16c. J60-P-3A 0UND RUNUP 110- 110- 110- 110- 110- 110- 110- 110-	20 114.2 114.2 111.7 110.9.1	1114 30 1116-2 1106-6	11111111111111111111111111111111111111	RATION: SINGLE SINGLE 111.7 50 101.3 3 106.7 6 104.1	AUNUP, ENGINE 60 60 1111.1	85%		-					-	- RUN	0.3		
(FEET)	0 200	10 112.9 110.5 108.0 105.4		30 1114 1119 1106 1106	1113.6 1110.8 1108.3 1102.6		•		E L		TEMP BAR BAR REL	METEOROLOGY: TEMP BAR PRESS REL HUMID DELTA N = -3.	= 29. = 0.08	59 F 92 IN H 70 %	9	PROFILE PROFILE 20 JAN PAGE		CODE CODE RSION	032 02018
	10.4	112.9 110.5 168.0 165.4		1114.	1113.2 1108.3 108.3 142.8			02	ANGL		(DEGREES) 90 100	113	120	130	140	150	160	170	>180
200 11	2.5	108.0		169.	108.3			m	•	105.5	105.1	107.9		104.9	106.5	107.0	2.46	87.9	8.99
	0 7	105.4		106.	1.2.8			D 10		100.1	100.3	103.3		100.0	102.2	102.7	92.0	83.4	61.9
		102.6		103.	1,2.8			-	_	98.2	97.9	100.8		98.3	6.66	100.5	87.4	81.0	59.3
500 10	102.2	00						99.2		95.6	95.3	98.2	93.9	95.9	97.5	98.2	85.0	78.6	56.6
	96.0	96.5	100.1	97.	96.6			2		90.1	89.5	93.1		90.6	92.4	93.1	80.0	73.4	50.2
														1	1				
	95.5	93.1		• 46			91.1	6.69	90.9	87.2	999	90.1	85.8	87.7	89.7	4.06	77.3	70.7	47.2
1600 8	84.6	85.2		86.			83.2	86.2	87.5	80.1	80.5	3.7.1	79.0	84.0	30.0	84.5	71.0	64.2	39.1
	30.0	80.6	83.8	81.			78.5	79.1	79.9	77.4	76.6	80.3	7.97	77.9	80.7	81.4	67.8	60.8	34.3
2500 7	6.4	15.6		76.			73.4	6.42	76.0	73.6	72.7	76.4	72.8	73.9	76.7	77.5	63.7	56.5	25.2
	70.0	71.1		72.			9.80	20.6	71.8	69.5	08.3	72.2	68.5	9.69	72.3	73.1	59.1	51.4	14.9
	9.40	65.5		99			62.8	65.4	66.5	64.8	63.6	67.5	0 . 4 9	65.0	07.4	68.2	53.9	45.6	+.5
2000	58.8	29.6		9			299	59.9	60.0	50.8	58.5	65.5	58.9	59.9	62.4	62.7	48.0	39.3	
	40.0	47.6	48.3	49.2	45.2	43.0	43.0	47.6	47.8	48.7	47.4	51.5	49.0	40.0	52.9	53.2	36.2	23.7	
		1		:														:	
12530	34.5	33.2	35.1	37.0	31.3	28.2	2000	341.7	40.4	40.7	40.0	43.4	42.0	* 0 *	7.04	10.0	21.7	13.9	
	27.8	28.2		29.			19.9	26.3	24.8	28.5	25.9	31.4	31.2	32.1	37.1	37.2	10.5	•	
	17.6	18.1		20.			7.0	13.1	12.3	16.9	13.9	21.9	21.6	22.8	29.8	30.8			
	7.4	8.1		8						5.4	1.9	8.0	7.4	6.9	17.2	20.5			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

20 30 40 50 60 87.2 99.7 99.8 92.1 95.2 92.8 92.0 90.5 99.7 90.3 89.5 88.0 87.2 90.0 90.5 90.0 90.0 90.0 90.0 90.0 90.0								-	74-032-001	
93.9 94.0 97.6 95.1 94.4 92.9 92.1 91.5 91.6 93.9 94.0 97.6 95.1 94.4 92.9 92.1 91.5 91.6 95.2 92.8 93.9 92.1 93.6 93.0 94.6 95.2 92.8 93.0 94.5 99.7 94.8 92.9 92.1 92.7 94.8 92.9 92.1 92.7 94.8 92.9 92.1 92.7 94.8 92.9 92.1 92.7 94.8 92.9 92.1 92.7 94.8 92.9 92.1 92.7 94.8 92.9 92.1 92.7 94.8 92.9 92.1 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7	RPH	3 3	METEOROLOGY: TEMP BAR PRES REL HUMI DELTA N =	Non	= 59 F = 29.92 I = 70 %	7 1 × 2 × 2 × 2 × 2 × 2 × 2 × 2 × 2 × 2 ×		AIRCRAFT OPERATION PROFILE VE 20 JAN 76 PAGE F3	CODE ON CODE VERSION	032 02018
93.9 94.0 97.6 95.1 94.4 92.9 92.1 91.5 91.6 95.2 92.8 92.0 90.5 99.7 90.3 89.5 86.0 87.2 86.6 83.9 92.1 90.7 86.8 95.0 90.5 89.7 86.8 85.0 84.0 87.2 85.0 84.0 87.5 81.8 82.5 81.8 83.6 83.0 84.0 87.5 81.8 82.5 82.5 82.5 82.5 82.5 82.5 82.5 82	ANGLE	E (DEGREES) 90 100		110 1	120 13	130 140	0 150	160	170	×180
91.5 91.6 95.2 92.8 92.0 90.5 89.7 89.6 89.7 80.0 80.5 80.0 87.2 80.0 80.5 80.0 87.2 80.0 80.5 80.0 87.2 80.0 80.5 80.0 87.2 80.0 80.5 80.0 87.2 80.0 80.5 80.0 87.2 80.0 80.5 80.0 87.2 80.0 80.5 80.0 87.2 80.0 80.5 80.0 80.5 80.0 80.5 80.0 80.5 80.0 80.5 80.0 80.5 80.0 80.5 80.0 80.5 80.0 80.5 80.0 80.5 80.0 80.5 80.0 80.0		92.2	0					80.	73.2	53.
89.0 69.1 92.7 90.3 89.5 86.0 87.2 86.4 46.5 90.0 87.7 86.8 85.3 84.5 80.6 81.9 81.9 87.2 85.0 81.0 87.5 86.8 85.3 84.5 80.6 81.0 81.9 81.0 87.2 85.0 81.1 79.6 78.9 77.7 73.1 75.0 77.4 67.0 77.1 77.1 77.1 77.1 77.1 77.1 77.1 7		0.06	88.8		87.3 88			. 78.	71.1	51.
46.4 46.5 99.0 87.7 46.8 45.3 84.5 83.6 43.9 83.6 43.9 87.2 85.0 84.0 82.5 81.8 83.6 84.0 87.7 77.7 73.1 3.2 77.2 73.1 73.1 73.1 77.7 73.1 73.1 72.7 73.1 73.1 73.1 73.1 73.1 73.1 73.2 73.1 73.2 73.1 73.2 73.1 73.2 73.1 73.2 73.1 73.2 73.1 73.2 73.1 73.2 73.1 73.1 73.2 73.1 73.2 73.1 73.1 73.1 73.1 73.1 73.1 73.1 73.1		87.7						_	69.0	49.
77.7 73.1 31.2 79.2 78.0 77.6 78.9 77.7 73.1 77.6 76.1 74.7 73.1 77.6 76.1 74.7 73.1 72.3 72.3 72.3 73.2 74.2 73.8 73.1 73.2 73.3 74.2 73.1 73.2 73.3 74.2 73.1 73.2 73.1 73.2 74.3 74.2 73.1 73.2 74.3 74.2 73.1 74.2 74.2 73.1 74.2 73.1 74.2 73.1 74.2 73.1 74.2 73.1 74.2 73.1 74.2 74.2 73.1 74.2 73.1 74.2 73.1 74.2 73.1 74.2 73.1 74.2 73.1 74.2 74.2 74.2 74.2 74.2 74.2 74.2 74.2	4.58 5.4	85.4	~					73.	6.99	46.
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74.6 75.0 77.6 76.1 74.7 73.1 72.7 73.1 72.7 73.2 71.8 71.8 71.8 71.8 71.8 71.8 71.8 71.8										
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68.0 64.6 70.4 69.7 67.7 66.0 65.9 64.7 65.0 65.9 64.7 65.3 66.6 66.5 64.1 62.4 62.5 61.3 61.9 62.9 63.1 61.6 58.8 59.0 57.0 57.0 57.0 57.0 57.0 57.0 57.0 57		72.9	2	m			~	2		34.
64.7 65.3 66.6 66.5 64.1 62.4 62.5 61.3 61.3 61.9 62.9 63.1 60.6 58.8 59.0 57.8 54.0 54.4 52.5 57.8 57.8 51.0 54.4 52.5 57.8 57.9 57.0 54.0 54.4 57.0 54.0 54.4 57.1 51.1 51.7 49.3 47.3 47.5 47.5 45.3 45.5 45.3 45.6 45.7 47.3 44.9 42.8 43.1 41.4 41.5 42.6 43.2 40.7 38.5 38.8 37.1 37.2 38.2 38.8 36.0 34.3 34.2		70.1	2	2			10	,		32.
61.3 61.9 62.9 63.1 61.6 58.8 59.0 57.8 54.0 57.8 59.0 57.8 54.0 55.2 55.4 54.0 57.0 57.0 57.0 57.0 57.0 57.0 57.0 57		37.2	8	9			_	9		29.
57.8 54.3 59.2 59.6 57.0 55.2 55.4 54.0 54.4 55.3 55.9 53.4 51.4 51.5 49.8 50.1 51.1 51.7 49.3 47.3 47.5 45.3 45.6 46.7 47.3 44.9 42.8 43.1 41.4 41.5 42.6 43.2 40.7 38.5 38.8 37.1 37.2 38.2 38.8 36.0 34.0 34.2	.7 62.8	64.2			62.7 63	63.1 65.	.5 66.	.3 53.1	46.1	26.
54.0 5+.4 55.3 55.9 53.4 51.4 51.6 4.9 49.8 47.5 49.8 51.1 51.7 49.3 47.3 47.5 45.3 45.5 45.1 47.3 44.9 42.8 43.1 41.4 41.5 42.6 43.2 40.7 38.5 38.8 37.1 37.2 38.2 38.8 36.0 34.0 34.2		6.09	2				-	8		22.
49.8 53.1 51.1 51.7 49.3 47.3 47.5 45.3 45.6 46.7 47.3 44.9 42.8 43.1 41.4 41.5 42.6 43.2 40.7 38.5 38.8 37.1 37.2 38.2 38.8 36.0 34.3 34.2		57.3	1	c			_			18.
45.3 45.6 46.7 47.3 44.9 42.8 43.1 41.4 41.5 42.6 43.2 40.7 38.5 38.8 37.1 37.2 38.2 38.8 36.0 34.0 34.2		53.3	4				•			14.
41.4 41.5 42.6 43.2 40.7 38.5 38.8 37.1 37.2 38.2 38.8 36.0 34.0 34.2		6.84	2	0				6		10.
37.1 37.2 38.2 38.8 36.0 34.0 34.2		44.5	8	9				_		9
37.1 37.2 38.2 38.8 36.0 34.0 34.2										
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27.5 27.7 28.2	.6 27.0	28.7	27.3 3	30.9 2	29.7 29.	6	32.8 33.	2 20.0	13.2	
22.0 22.3 22.5 23.3 19.3 17.7 18.0				83		0		3 14.	8.3	
17.1 12.8 11.4 11.7	14.			2		6		2 9.	3.2	

NOISE SOURCE/SUBJECT: 1-39A AIKGRAFT ENG. JG-P-3A GROUND RUNUP DISTANCE 0 10 CEET) 0 97.0 97.2 1 CS0 87.0 89.8 84.3 SS0 88.0 89.8	10 20 94.8 99.0 99.4 96.5 99.8 99.8 99.8 99.8 99.8 99.8 99.8 99	20 20 30 99.5 98. 99.5 99. 99.5 99. 99.6 99.	~~~~ m40.	40 50 86.3 89.0 95.6 93.9 93.0 95.6 93.9 95.6 93.9 90.4 88.7		RUNUP, 8											74-032-001	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-	000000	240+			LINE	85% RPH			HETEOROLOGY BES BAR PRES REL HUMI	PRESS HUMID	=29.	59 F 92 IN HG 70 %		AIRCRAI OPERAT PROFIL	AIRCRAFT OPERATION PROFILE VE 20 JAN 76	C00 C00 RS1	E 032) E 02018) CON A)
000000000000000000000000000000000000000	4		549+		20 05	0.0	20	ANGLE	E (DEG	(DEGREES) 90 100	110	120	130	140	150	160	170	180
9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			79.					95.2	92.2	91.0	4.46	89.5	7.06	92.5	93.3	80.7	74.2	54.2
925.0			9 -		6			95.9	0.36	88.8	92.2	87.3	88.6	4.06	91.2	78.6	72.1	52.1
8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9								30.0	87.7	96.5	90.0	85.2	96.4	88.3	89.1	16.5	20.0	50.0
9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9						88.1 6	67.3	88.1	85.4	84.2	87.7	83.0	84.2	86.2	87.0	74.3	67.9	47.9
90.0			t in		83.0 83			93.4	80.0	19.67	83.0	78.5	79.67	81.7	82.5	69.8	63.3	43.3
			٥					90.3	78.1	76.8	80.5	76.2	2.77	79.3	80.2	67.5	61.0	41.0
							•		3 24			* **		26				
	75.1 77	77.9 76.	n m	74.8 7			74.0	74.7	72.9	71.5	75.3	71.2	72.0	74.3	75.2	62.4	56.9	35.9
71.1			-		69.5 69	69.5 7		71.7	76.1	68.7	72.5	68.5	69.5	71.5	72.4	59.7	53.1	33.1
67.8		,	8				0	68.7	67.2	65.8	9.69	65.8	66.3	68.7	9.69	56.9	50.3	30.3
9 ** *	02.1 66		2				-	62.5	2.49	62.7	66.5	62.7	63.1	65.5	66.3	53.7	47.1	27.1
60.8			•				10	62.1	6.09	59.3	63.1	29.4	9.69	62.0	62.8	50.3	43.7	23.7
20.4	57.0 53.	.4 58.	2		54.1 54		•	8.29	57.3	25.1	28.2	92.6	55.8	58.1	58.8	46.4	39.6	19.6
51.6			1					53.5	53,3	51.6	25.4	51.5	51.5	53.8	54.5	42.0	35.2	15.2
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24 224 0000	7.74	***	0	41.4			3.3	43.5	44.0	45.8	40.0	43.5	43.1	42.6	40.1	33.5	50.0	•
10000 37.1 37	37.2 36	36.2 36.	8				8.2	37.9	39.7	38.0	41.7	39.1	39.0	41.6	42.1	29.5	22.3	2.3
32.5			0	30.9 2	29.0 2	29.3 3	33.1	32.6	34.5	32.9	36.5	34.6	34.6	37.4	37.8	24.8	17.9	
27.5		20.2 28.	6				9.2	27.0	28.7	27.3	30.9	29.7	59.6	32.8	33.2	20.0	13.2	
22.0	3	22.5 23.	2				1.6	21.0	22.5	21.3	24.8	54.4	25.0	28.0	28.3	14.9	6.3	
10.0			-				2.0	14.6	15.9	15.0	18.2	18.8	19.9	55.9	23.5	9.5	3.2	

	10	DISTANCE	CE =		250 F	FEET																						TES	4	8.2	32-	001
NOISE SOURCE/SUBJECT! T-39A AIRCRAFT ENG. J60-P-3A Ground RunuP	SOURCE 194	RUN RUN	JA A B	TAFT				0	SERA	OPERATION: ENGINE SINGLE		RUNUP, ENGINE	a.u	85%	α Σ			E 9	METEOROI TEMI BAR BEL DELTA N	METEOROLOGY: TEMP BAR PRESS REL HUMID DELTA N = -3	PRESS HUMID	A CONTRACTOR OF THE PARTY OF TH	= 29.92 = 70 = 70	900 71%	ž			ATICRATICODE O OPERATION CODE O PROFILE VERSION 20 JAN 76 PAGE J3	SERAT JAN	LE V	ERS	DE 032 DE 02018 ION A
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. SPL DATA MERE EXTRAPOLATED FOR THIS ANGLE.

NOISE SOURCE/SUBJECT T-394 AIRCRAFT ENG. J6G-P-34 GROUND RUNUP	DISTANCE =	BAND 256 F	F	SURE	LE VE L										` ^ '	TEST		2 32-001	
	ECT :			OPERATIC MILITA SINGLE	TION: ITARY GLE E	POWE	2	100%	Y Q	「下す母よ」	A H P R	SS	29.92 70 70 10 08	r H X	9	AIRCRAFT OPERATION PROFILE V 20 JAN 76 PAGE C4	_ω_	CODE	032 02004 A
BAND CENTER FREG (HZ)	-	,		30	3	5.	3	70 A	NGLE	(DEG3	EES)	110	120	130	140	150	160	×170	×180
0		2 0		7.1	72		14	1.4	22	25	79	81	85	86	8 8	85	80	7.0	60
3		1		52	74		11	92	78	18	0 0	84	88	89	91	88	77	19	57
		~		22	75		62	80	81	80	95	86	90	93	93	89	75	69	55
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		80		94	91		80	8.0	82	81	83	88	91	93	93	98	14	49	54
		0		85	91		80	80	91	80	82	96	93	95	93	98	77	19	57
		80		98	83		81	80	83	80	8 0	87	68	93	95	70	78	99	58
		00		86	83		82	83	48	93	81	89	95	90	92	87	81	11	61
500 96		80		87	84		83	83	87	35	84	90	95	88	91	88	82	72	62
		20		99	85		84	85	87	87	87	91	+6	88	06	97	80	7.0	60
		•		87	85		85	98	88	88	87	35	93	88	90	87	7.8	99	58
		30		88	85		84	82	88	93	88	95	16	88	90	96	28	68	58
		ю		84	85		85	98	87	89	8	95	93	88	95	98	75	69	55
1600 81		84 8		94	85		80	88	87	88	8	93	46	88	92	98	75	69	55
		30		83	83		65	94	85	89	90	93	93	87	92	98	11	29	57
		80		83	94		60	7.8	85	97	88	95	95	98	9.0	84	14	49	54
	8	9		83	86		83	83	36	88	86	90	91	85	87	81	72	62	55
	9	2 8		82	83		83	82	86	68	88	90	91	98	85	81	73	63	53
5000	9	0 8		78	81		62	80	83	85	85	98	87	81	81	76	69	59	64
0	6	6 0		88	87		94	82	33	94	83	85	85	79	80	15	68	58	48
		8 8		25	11		75	14	7.8	80	80	83	81	16	77	72	69	55	45
10000		3 7		72	72		7.1	69	72	73	14	77	92	71	7.1	99	29	64	39
OVERALL 97	6	9 100	ت	96	26	96	96	96	86	66	66	103	105	104	105	66	91	81	7.1

	4	AS A F	A FUNCTION OF		ANGLE A	AND DI	DISTANCE	FROM S	SOURCE) TEST	-	32-001	
NOISE TE	E SOURCE/SUB T-39A AI ENG. J60-P-3 GROUND RUNUP	CE/SU	E SOURCE/SUBJECT: 1-394 AIRCRAFT ENG. J60-P-34 GROUND RUNUP	- E		OPER	OPERATION: MILITARY POWER, SINGLE ENGINE	ENGINE	EK, 100%	23 E P P		METEOROLOGY: TEMP 3AR PRES REL HUMI	OLOGY: MP R PRESS L HUMID	=29.	59 F 92 IN H	9	A AIRC	AIRCRAFT OPERATION PROFILE VEI 20 JAN 76 PAGE D4	CODE CODE ERSION	032 02004 A
DISTANCE (FEET)	ANGE	-	07	50	36	9	5.0	6.9	52	ANGLE	90	SREES)	110	120	130	140	150	160	>170	×180
2		112.1	113.6	115.4	112.2	112.0		110.	110.7	0	114.6	114.3	117.9	118.9	115.0	m	~	102.4	92.2	81.9
2		109.7			109.8	109.7	109.1		108.4		112.3	112.0	115.	110.7	112.8			10001	89.9	7.67
7		10/02	100.1		107.3	107.3		106.	100.1	~	109.9	139.6	113.	114.4	110.4	.	m 1	97.9	87.6	77.3
* 10	1 1 20 1	131.7	163.3	1.5.0	1112.0	107.3	101.0	101.3	- ~		107.4	101.8	1111	112.1	108.0	٠.	٠-	95.5	82.0	72.5
ف	•	99.0	100.4		99.1	99.7				100.7	102.0	102.3	100.3	107.1	103.0	_ ^	4 .0	90.06	80.3	669
80		96.1	97.5		96.3	90.6		95.9		97.9		9.66	103.3	. 40	100.3	0	0	87.9	77.6	67.2
1000	00	93.1	94.5	96.1	93.	93.8	93.0	93.0	93.2	6.46	96.1	96	100.	101.5	97.5	6.66	94.2	85.1	74.8	64.3
12		8 9.8	91.3			90.5	90.5	6.69	90.5	91.8	92.9	93.7	97.3	93.4	4.46	6.96	91.2	82.2	71.9	61.2
1600		86.3	87.7		86.	86.9	87.1	96.5	87.1	88.5	89.7	90	94.	95.1	91.1	93.7	88.0	79.2	68.7	58.1
20 00		85.9	84.2	85.5	83.	83.0	83.4	85.9	83.7	84.9	86.2	86.	90.	91.7	87.5	90.2	9.48	76.0	9.59	54.7
2500	00	78.9	80.3		79.	78.9	19.4	19.0	60.1	81.2	82.3	83.	86.	88.0	83.7	86.4	80.8	72.6	62.0	50.9
3150		14.6	76.1		75.	7 4.8	75.3	74.9	16.0	77.1	78.1	78.	82.	83.9	19.5	82.2	16.8	9.89	57.9	46.4
4000		2.69	711.7		7.1.	70.2	70.8	10.4	71.5	72.6	73.3	74.	78.	19.4	74.8	17.6	72.3	64.0	53.2	41.3
5000		9.49	6000	08.	99	65.2	65.8	4.59	9.99	1.19	68.2	69.	73.	74.5	69.8	72.7	67.4	59.5	48.1	35.2
6300	00	6	61.9		61.	59.8	60.3		61.2	62.6	63.0	63.	67.	69.5	9.49	67.2	62.4	53.9	42.1	28.5
8000	00	22.5	57.4	59.0	57.	55.1	54.9	54.9	55.9	57.9	58.0	58.	65.	9.49	60.1	65.5	58.1	49.5	36.9	20.0
10000	00	50.4	52.6	54.0	52.	49.8		. 64	50.5	52.6	52.7	52.8	57.5	60.1	55.4	57.9	53.4	44.5	31.1	11.5
12500		45.0	47.5		46.	43.7			0.99	46.8	46.5	46.8	51.9	54.8	50.3	52.9	48.2	38.6	24.8	2.9
16000		33.9	41.3		*0	36.9			36.9	40.5	39.6	39.4	45.5	49.0	40.44	47.0	41.9	32.6	14.3	
20000	0.0	31.9	34.7			29.7	28.1	27.7	28.4	33.2	31.2	30.8	37.9	41.6	37.6	40.4	34.4	24.8	3.9	
25000	00	23.1	26.3		24.	18.1			16.0	24.0	20.4	19.0	29.3	33.5	29.3	32.4	26.1	11.5		

NOISE SOU	AS A F	FUNCTION OF																	
NOISE SOL	IS/4Jan		N OF A	ANGLE A	ND DIS	AND DISTANCE	FROM S	SOURCE) TESI	TEST 74-032-001	15-001	
ENG.	1-390 T-390 ENG. J60-P-3A GROUND RUNUP	SOURCE/SUBJECT: 394 AIRCRAF 1G. J60-P-3A COUND RUNUP	F		O PER	OPERATION: MI_ITARY POWER, SINGLE ENGINE	ENGINE	R, 100%	X RP A	2222	METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	P PRESS HUMID	= 59 = 29.92 = 70	FHX	9	PAGE	AIRCRAFT OPERATION PROFILE VEI PAGE E4	CODE	032 02004 N A
DISTANCE (FEET)	3	3	26	36	9	5.0	0.9	7.0	ANGLE		(DEGREES)	017	120	130	140	150	169	>170	180
200	113.9	115.5	117.3		113.4	112.4				114.6	114.3		118.9				102.4	92.2	81.9
250	1111.5	113.1		9	1111.1					112.3		115.7	116.7				100.1	69.6	79.7
315	109.0	110.6	112.4	109.2	108.7	107.8	107.3	107.0	108.3	109.9		113.4	114.4	111.6	112.3	106.8	97.9	87.6	77.3
900	1137.5	105.1	106.0	n a	103.7					101		1.8.6	100.6				93.1	82.0	72.5
030	100.8	162.2	103.9	0	101.1					102.0		106.0	107.1				9006	80.3	69.9
800	97.9		101.1	7	98.5					99.1		103.3	104.4				87.9	17.6	67.2
1300	0 . 10	4.40	93.0	96.1	0.0		1.40	04.1	0 . 10	96.1	36.7	100.4	101.5	7.80	9.00	94.2	8 F. 4	74.8	54.3
1250	91.6	93.1	94.8	91.9	91.9		91.0	91.1	91.8	92.3	93.7	97.3	98.4	95.6	6.96	91.2	82.2	71.9	61.2
1600	88.1	9.60	91.2	88.6	88.3	88.1	87.6	87.9	88.5	1.68	90.4	94.1	95.1	92.2	93.7	88.0	79.2	68.7	58.1
20.0	84.7	86.1	87.4	85.0	84.5		84.0	9.48	84.9	86.2	86.9	90.6	91.7	88.6	90.2	9 ** 8	76.0	9.59	54.7
2500	80.7	85.2	83.3	81.4	80.3		80.2	80.9	81.2	82.3	63.1	86.8	88.0	84.8	86.4	80.8	72.6	62.0	50.9
3150	70.4	78.0	19.5	17.4	70.2		76.1	6.92	77.1	78.1	78.9	85.6	83.9	80.7	82.2	76.8	68.6	6.19	40.4
000+	71.1	73.2	14.7	72.8	71.3		71.3	72.2	14.6	73.3	74.1	78.1	19.4	15.8	77.6	72.3	0.49	53.5	41.3
2000	65.7	63.0	69.7	67.8	0.99		60.1	67.1	1.19	68.2	68.9	73.2	74.5	9.02	72.7	67.4	2005	48.1	35.2
6306	00.1	62.6	64.3	62.4	4.09		60.4	61.5	65.0	63.0	63.4	67.8	69.5	65.1	67.2	62.4	53.9	42.1	28.5
9000	52.5	91.9	59.3	57.5	55.3		55.1	56.0	57.9	58.0	58.6	65.5	9.49	60.3	65.5	58.1	49.5	36.9	20.0
				- 1				1		1	,				-		1		
10000	23.4	25.6	24.0	55.5	4 3.8	49.0	49.5	20.2	25.0	52.7	25.8	51.5	60.1	55.4	57.9	53.4	44.5	31.1	11.5
15500	42.6	41.5	48.5	46.8	43.7	43.4	43.1	1 1 .	40.8	40.2	40.8	51.9	24.0	50.3	55.9	7.84	38.6	24.8	5.9
16300	34.9		45.2	40.4	30.9	36.4	36.2	36.9	40.5	39.6	39.4	45.5	49.0	4.4.4	47.0	41.9	35.6	14.3	
20000	31.9	34.7	34.7	33.4	29.7	28.1	27.7	28.4	33.2	31.2	30.8	37.9	41.6	37.6	40.4	34.4	24.8	3.9	
25000	23.1		2 30	21.0						-		1	•						

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

	AS A	FUNCTION	9	ANGLE A	AND DIS	DISTANCE	FROM S	SOURCE) TEST		32-001	
SIO	URCE/ NJ 60-	SUBJECT S AIRCRAF P-3A NUP	-		OPERA	PERATION: MILITARY POWER, SINGLE ENGINE	Y POWE	R, 1002	х дри		METEOROLOGY: TEMP BAR PRES RÉL HUMI DELTA N = -	PRESS HUMID	=29.	59 F 92 IN HG 70 %	g	AIRCRAF OPERATI PROFILE 20 JAN PAGE F	+ t t.t. t.	CODE CODE RSION	032 02004
DISTANCE (FEET)	0	16	56	30	0,	50	09	52	ANGLE 83		(OEGREES) 90 100	110	120	130	140	150	160	>170	>180
200	97.5	99.5	100.9	4.66	98.1	8.76	97.5	97.9	9.66	101.0			105.5	100.6	103.1	98.0	89.7	7.67	69
250	95.2	96.9	98.7	96.2	95.8	1.56	95.2	1.56	4.76	98.8		102.5	103.4		101.0	95.8	87.6	77.6	9.79
315	92.0		30.0	25.0	93.5	43.4	93.0	25.5	25.5	96.6			101.2		98.8	93.7	85.4	75.4	65
200	900	89.8	91.5	89.3	88.7	38.7	88.3	88.4	96.5	94.0			6.06	94.1	90.06	91.5	81.0	71.0	20
630	85.5		89.0		86.2	86.3	85.9	86.5	88.2	89.4			94.3		92.0	86.9	78.7	68.7	58.
900	83.6	84.8	86.4		83.6	83.7	83.4	84.1	85.7	96.9	0		91.8		9.68	84.6	16.4	4.99	26.
1000	40.6	87.3	8.3. 8	81.9	81.0	81.1	8.08	81.5	83.2	842	7 8	2 98	2 08	9, 10	47.4	82.2	74.0	0 44	0 75
1250	7.77	19.6	81.2	19.4	78.2	78.4	78.1	78.9	80.6	81.6		85.6	86.7	81.0	84.5	79.6	71.6	61.6	51
1600	74.9		78.4	76.7	75.4	75.6	75.3	76.2	77.8	78.7	78.	82.8	84.0	79.2	81.8	77.0	69.0	59.0	49.0
2360	72.2	2.42	75.6		72.5	72.6	72.4	73.3	75.0	75.8		79.9	81.2	76.3	78.9	74.3	4.99	96.4	46.
2500	69.0		72.6	71.0	4.69	69.5	4.69	70.3	72.0	72.7	72.	76.8	78.1	73.2	75.8	71.3	63.5	53.5	43.
3150	9.50		4 .69		66.1	66.2	0 • 9 9	67.0	08.8	4.69		73.5	74.9	8.69	72.5	68.1	60.3	50.3	40.
4900	61.9		62.6		65.5	65.5	65.4	63.4	65.3	65.8	65.	8 .69	71.3	66.1	68.7	64.5	9.99	9.94	36.
50.30	57.8		61.9		58.4	28.4	58.4	29.4	61.3	61.8	61.	65.7	67.2	62.0	9.49	60.4	52.6		32.
6330	53.4	22.5	97.6	•	54.1	53.9	53.9		56.9	27.4		61.2	65.8	57.6	60.1	96.0	7.84	38.2	28.
9900	49.5	51.7	53.5	55.0	49.8	6.64	49.6	9006	52.1	53.0	55.	56.8	58.6	53.4	55.8	51.9	44.3	34.3	24.
10000	45.2	47.5	49.1	47.5	45.2	6.44	6.44	45.8	48.1	48.2	47.8	52.1	54.0	0.64	51.2	47.6	40.1	30.1	20.
12500	40.6		44.2	42.0	40.5	39.8	39.8	40.6	43.1	43.0	42.6	6.94	0.64	44.2	46.3	42.8	35.5	25.5	15.5
16000	35.5		39.8		34.8	34.3	34.2	34.9	37.6	37.2	36.8	41.3	43.6	39.0	41.0	37.6	30.5	20.5	10.
20300	34.0	32.1	32.9	31.3	28.8	28.3	28.1	28.8	31.6	30.9	30.5	35.2	37.7	33.6	35.4	32.0	25.0	15.0	5
25000	24.1	20.3	26.4	24.8	25.2	21.7	21.4	22.0	54.9	24.0	23.7	28.6	31.2	27.9	29.5	25.8	18.8	8.8	

		1	FUNCTION OF A	ANGLE A	9	DISTANCE	FROM S	SOURCE								TEST	1 74-0	74-032-001	
: 5	SE SOURCE/SUBJECT: T-39A AIRCRAFT ENG. J6J-P-3A GROUND RUNUP	IRCRAF 3A	- =		OPERA	OPERATIONS MILITARY SINGLE EN	RY POWER, ENGINE	R, 100%	A H	2000	METEOROLOGY: TEMP BAR PRES REL HUMI	LOGY:	=29.	59 F 92 IN H	92	PAG	SAFT RATIO ATIO ILE AN 7	COC	DE 032
DISTANCE	0	3	20	30	0,7	5.0	9	2.	ANGLE 80	111	(DEGREES)	116	120	130	140	150	160	>170	×180
200	99.3	161.1	102.3	100.2	99.5	90.9	98.6	7.86	9	101.3	101.1	104.7	105.5	101.8	103.1	98.0	1.68	7.67	69.7
250	97.0		100.6		97.2	1.96	96.4	96.5	+	98.8	98.9	102.5	103.4	99.	101.0	95.8	87.6	77.6	67.6
315	94.7	96.5	94.2	95.8	94.9	34.4	94.1	94.3	95.2	96.6	96.6	100.3	101.2	97.5	98.8	93.7	85.4	75.4	65.4
200	8.0.8	41.7	93.4		90.1	89.7	89.4	89.7		91.0	0 2 2	95.7	96.6	0 2	0.00	91.2	3	74.0	61.0
630	87.3	89.5	90.9		87.6	87.3	87.0	47.4	2	89.4	39.6	93.3	94.3	90	92.0	86.9	78.7	68.7	58.7
800	84.0	86.7	88.3		85.0	94.7	84.5	6.49	2	86.9	87.0	90.8	91.8	88	9.68	84.6	16.4	4.99	56.4
0.00	6.04	6	7	8 2 8	200	. 04	•	, ,	6 2 9	2 70	2 70			100					
1250	79.5	81.5	83.1	81.2	79.6	79.4	79.2	79.8	80.0	81.5	81.7	87.0	80.7	83.1	84.5	70.6	71.6		51.6
1600	76.8	74.8	80.3		76.8	76.6	76.5	77.1	77.0	7007	78.9		84.0	80.3	81.8	77.0	69.0	59.0	49.0
2000	74.0	76.0	77.5	15.8	73.9	73.6	73.0	74.2	75.0	75.8	76.0		81.2	77.5	78.9	74.3	66.4	56.4	46.4
25.0	73.8	73.0	24.5		70.8	70.5	70.5	71.1	72.0	72.7	72.8		78.1	74.4	75.8	71.3	63.5	53.5	43.5
3150	67.5	1.69	71.3		67.5	67.2	2.19	6.79	68.9	** 69	69.5		74.9	71.0	72.5	68.1	60.3	50.3	40.3
0004	63.4	65.7	4.19		63.6	63,3	03.3	64.1	65.3	65.8	65.8	69.8	71.3	67.1	68.7	64.5	9.99	46.6	36.6
20.0	59.8	61.2	63.1		59.3	28.0	29.0	69.69	61.3	01.9	61.7		67.2	62.7	9.49	60.4	25.6	45.6	32.6
6300	24.5	20.5	28.4	50.8	24.6	54.3	24.4	55.3	56.9	57.4	57.5		65.8	58.1		26.0	48.2	38.2	28.2
9000	8 .64	52.1	53.9	52.4	50.1	49.4	49.8	2000	52.7	53.0	52.7	50.8	58.6	53.7	55.8	51.9	44.3	34.3	24.3
1.100	45.2	47.5	49.1	47.5	45.2	6.44	6.44	42.8	48.1	48.2	47.8	52.1	54.0	0.64	51.2	47.6	40.1	30.1	20.1
12500	40.6	45.8			41.2	39.8	39.0	40.6	+3.1	43.0	42.6	6.94	0.64	44.2	46.3	42.8	35.5	25.5	15.5
16000	35.5	37.7			34.8	34.3	34.2	34.9	37.6	37.2	36.8	41.3	43.6	39.0	41.0	37.6	30.5	20.5	10.5
20000	30.0	32.1	32.9	31.3	28.8	28.3	20.1	28.8	31.0	30.9	30.5	35.2	37.7	33.5	35.4	32.0	25.0	15.0	5.0
0000																			

> SPL DATA MERE EXTRAPOLATED FOR THIS ANGLE.

NOISE SOURC	DISTANCE = 250	250 FEET) TEST 74-032-001
GROUND GROUND	CRAF		OPERATIONS MILITARY POWER, SINGLE ENGINE	POWER, 166% RPM Sine		METEOROLOGY: TEMP BAR PRESS REL HUMID DELTA N = -5.	Y: 59 F ESS =29.92 IN HG MID = 70 %) RUN 04) AIRCRAFT CODE 032) OPERATION CODE 02004) PROFILE VERSION A) 20 JAN 76
			P=PNLT		A=AL		T=ALT	
c							•	a
10							A T.	
20	•••			• •	••	• •	. A.T.	· · ·
36			.:				A T	d
0,4				• •	•	• •	. AT .	•
A 50	• • • • • • • • • • • • • • • • • • • •	•		• •	•		. AT .	• •
2 9	:		.:				AT	
L E 70				••	•••	• •	. AT	•••
1 80						• •	· · ·	
06 v	:						×	
0 E 100	•••					• •	•*	a
6 8 110								
				٠				
S 120	:			:	•	•	• • •	
140				• • •	• • •	• • •	- · ·	
150							×	d
160	•••				•••	• •	••	•••
*170	•••			•		· ·	• •	•
*180		•			· · · · · · ·	•		
	30	2.0	6.7					

. SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

1-43													1.	1-43
AIRCRAFT AIRCRAFT												> 0	AIRCRAFT	ATRCRAFT
n m m # # # 					PAGE	536-544 545-553 554-562		77.	SELT, EPNL)	SELT, EPNL)		8 0 R A T O R S E , 0 H I	54-1	1-43
AIRCRAFI	GROUND BY	AFT	TIONS	ENTS 083 EGA 6.6			A ARE PROVIDED	NCE FROM AIRCRAFT	PNL, PNLT, SEL,	PNL, PNLT, SEL,		0 A C E B A A	AIRCRAFT	AIRCRAFT
2 1 1 1	NOISE PRODUCED ON THE GROUND BY	3 AIRCRAFT	DURING FLIGHT OPERATIONS	FLYOVER HEASUREHENTS AIRCRAFT CODE: 083 PROFILE VERSION! A			THE FOLLOWING DATA	AT PNLM F SLANT DISTA V	LT,	LT,	13 FEB 76	L A I R S S F F F F F F F F F F F F F F F F F	1-43	M +
AIRCRAFT AIRCRAFT	NOISE PRO	1-43	DURING	FLYOVER AIRCRAF PROFILE COMPUTER		R		MALIZED MEAN SPL SPECTRUM AT PNLM SE LEVELS AS A FUNCTION OF SLANT DISTANCE AIR-TO-GROUND PROPAGATION SOUND PRESENTE ITEMS SECRED	SOUND FRESSORE LEVEL SFELTA SINGLE EVENT MEASURES (AL, ALT, ND-TO-GROUND PROPAGATION	SOUND PRESSURE LEVEL SPECTRA SINGLE EVENT MEASURES (AL, A		THE ROLL	AIRCRAFT	AIRCRAFT
2 m m					POWER SETTING	TAKEOFF 1.97 EPR . APPROACH 1.46 EPR INTERMEDIATE 1.21	FOR EACH POWER SETTING,	NORMALIZED MEAN NOISE LEVELS AS AIR-TO-GROU	STOUND SINGLE GROUND-TO-G	SINGLE		ROS I GHI PACE	1-63	1-43
AIRCRAFI AIRCRAFI					۵.1	HAH	ш	NN				4 3 m 4	AIRCRAFT	AIRCRAFT
2 m m													1-43	1-43

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	20	30 A	40 MEAN VALUE	50 OF NORMALI	60 IZED 1/3 09	70 SPL IN DB	8.0	6			
	T-43		TAKEOFF	F POWER	1.	97 EPR					
IRSPE	AIRSPEED = SLANT DISTANCE =	200	KNOTS FEET	TEMP REL HUMIO	= 59 F 110 = 70 %			PNLT =		3 PN08	
NO. OF	RECORJS =	12		IDENT	6.6-083-103-130276	-130276		AL	94.1		

	AIR-	10-C	AIR-TO-GROUND	D PROP	AG	A	z													•	OMEGA		9.9	
IRCRAFT	F + -					OPER T	ATIO AKEO 1.97 IRSP	4 6 0	= 20		KHOTS			E E1	EOROLOGY TEMP REL H	1 - 5 6	= 01	59	u ×	1	A/C OPS PRO PAG	A/C CODE OPS CODE PROFILE V 13 FEB 76 PAGE H1	E	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
SLANT DISTANCE (FEET)		18	19	20	21	22	23	24	25	FRE 26	QUEN 27	NCY B	0 N N N N N N N N N N N N N N N N N N N	NUMB	ER 31	32	33	3,6	35	36	37	88	66	3
200	9.4	82	85		-	104	98		103	102	101	102		66	98		96	16	100	96	36	91	89	89
250	85	80	83	93	100	102	96	66	101	100	66	66	86	16	96	96	95	95	16	95	92	88	98	86
515	9 6	2,0	101	100	200	100	4 0		2 6	200	200	5		35	400		56	93	35	50	6 6	62	9 9	0
200	92	2 2	22	87	96	96	90		95	96	6 6	93		91	90		8 9	8 6	90	9 4	8 0	20	22	-
630	14	72	25	85	95	76	88		93	92	91	91		89	87		86	86	87	84	81	15	7.	61
8.0	72	92	73	83	90	91	98		91	96	89	88		98	82		94	83	*	81	11	11	65	6
1000	10	99	11	81	88	89	9 4			97	87	87		84	83	82	81	80	81		73	99	9	5
1250	68	99	69	62	96	87	81			85	85	85		82	80	62	7.8	11	78		69	61	53	7 7
1600	99	49	19	11	94	85	62			83	82	82		62	11	11	15	14	14		49	24	*	33
2000	9	62	19	15	82	83	11			81	80	90		11	15	14	72	20	20		58	14	35	1,9
2500	62	9	62	23	80	81	15	18	80	79	78	11	15	74	72	7.0	68	99	65	25	51	38	23	M
3150	9	28	9	7.1	18	62	73			92	15	15		71	68	29	19	61	29		43	58	80	
0034	28	25	28	69	15	11	7.1			14	73	72		68	65	63	9	99	53		33	15		
5030	96	53	96	29	73	12	68			11	20	69		49	61	58	24	20	45		22			
6300	24	51	24	49	7.1	72	99			68	19	99		09	26	53	48	42	36		80			
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16000	45	42	45	55	61	62	55	58	58	55	52	64	43	38	30	22	10							
20000	43	100	45	25	28	65	52		24	20	24	43		59	21									
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* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12 * BAND WHICH DETERMINES THE TONE CORRECTION (C).

AIR-TO-GROUND PR		OPAGATION					•	OMEGA 6.6
AIRCRAFT: 1-43		(OPERATIONS (TAKEOFF (1.97 EF	NS FF POWER EPR		METEOROLOGY: TEMP REL HU	TEMP = REL HUMID =	59 F)	A/C CODE: 083 OPS CODE: 103 PROFILE VER: A
		(AIRSPEED	.0 = 200 KNOTS)TS	DELTA N =	0.0 08		13 FEB 76 PAGE I1
SLANT DISTANCE	4	ALT**	PNL	PNLT**		SEL	SELT**	EPNL **
(FEET)	(DBA)	(08A)	(BONG)	(BONG)		(08)	(08)	(EPNOB)
200	110.1	110.7	124.2	124.8		100.9	111.0	115.0
250	107.9	108.5	121.9	122.5		108.7	109.8	113.7
315	105.7	106.3	119.6	120.2		107.5	108.7	112.4
00+	103.5	104.1	117.2	117.8		106.3	107.4	111.0
200	101.2	101.8	114.7	115.4		105.0	106.1	109.6
920	30.3	33.5	2021	116.0		1000	1040	0.001
900	96.5	97.1	109.5	110.1		102.3	103.4	106.3
1000	94.1	7.46	0	107.3		100.9	02.	104.5
1250	91.6	92.2	103.7	104.3		99.	00	102.5
1600	89.0	9.68	0	101.1		97.8	6.86	100.3
2000	86.4	87.0	97.2	6.76		96.2	97.3	98.0
2500	83.7	84.3	64.3	95.0		4.46	92.6	96.1
3150	80.9	81.5	91.3	91.9		95.6	93.8	94.1
4000	78.0	78.5	88.2	88.7		90.8	91.7	91.8
2000	75.0	75.3	85.0	85.3		88.8	4.68	69.3
6300	71.8	72.1	81.6	81.9		96.6	87.1	86.7
9008	68.6	68.7	78.1	78.2		94.4	84.6	84.0
10000	65.1	65.1	74.5	74.5		81.9	81.9	81.2
12500	61.5	61.5	20.6	9.02		79.3	79.3	78.3
16000	57.6	9.76	66.5	699		76.4	76.4	75.1
20000	53.6	53.6	62.0	62.0		73.4	73.4	71.7

** EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

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	GROU	GROUND-T	GROUND-TO-GROUND	ONNO	0	PAGA	AGATION														OMEGA 6.6	A 6	9	
A I RCRAFT	7				1	OPER	AKEOFF		POWER				E		TEOROLOGY TEMP REL H	HUMI	" "	59 F		?~~~	A/C OPS PROF	882	1 08 1 10 VER:	80 H
						A	IRSPE	EEO :	= 200	KNOT	15		0.00	DELTA	" Z	0.0	08				- 19	1	,	
SLANT DISTANCE (FEET)	11	18	61	20	12	22		54	25	FREQ 26	QUENCY 27 28	28 BA	0 6 8	NUMBE 30	31	32	33	*	35	36	37	80	39	0,
200	62	11	30	96	16	66	93		98	26	96	26	95	76	93		93	95	36	93	9.0	96	84	84
250	11	22	28	88	95	26	91		96	95	16	46	93	35	91		06	06	92	06	87	83	81	81
315	15	73	92	96	93	95	69	95	16	93	95	26	91	90	68	68	88	88	06	88	9.4	80	7.8	77
004	73	7.1	14	84	91	35	87		35	91	06	90	68	88	87		98	96	88	85	82	11	1.	73
200	7.7	69	72	82	89	90	84		90	89	88	88	87	98	85		84	83	85	82	62	14	20	9
630	69	29	20	80	98	87	81		88	87	86	98	85	84	82		81	81	82	62	92	20	99	62
800	29	65	96	28	4 8	82	52		986	82	48	48	82	81	80		62	7.8	62	92	72	99	09	26
1000	65	63	99	75	81	82<	92	80	83	82	82	82		62	78	11	92	75	16	72	68	61	55	4
1250	63	61	63	72	78	61	73	11	80	80	9.0	80		11	75	14	73	72	73	89	49	99	84	3
1600	61	58	65	68	14	22	69	73	11	82	11	11	92	7.4	72	72	20	69	69	49	29	64	39	28
2000	58	24	25	69	7.0	71	69	69	14	92	15	15		72	20	69	29	65	65	66	53	74	30	14
2500	24	20	51	9	99	29	61	65	20	72	73	72		69	29	69	63	61	69	52	94	33	18	
3150	20	46	14	25	61	62	96	09	65	99	69	20		99	63	62	66	99	24	45	38	23	3	
0004	46	41	41	20	96	96	20	24	69	63	65	99		63	09	58	52	51	84	37	28	10		
2000	41	36	37	45	51	51	45	64	24	58	61	62		69	96	53	64	45	04	27	17			
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8663	33	53	30	38	†	4	38	41	45	64	24	24	53	51	94	42	36	28	19					
10000	31	27	28	36	41	45	35	39	42	94	20	20	6 4	94	04	35		18	9					
12500	53	52	52	34	39	39	33	36	39	43	94	40.	43	04	34	27	18	2						
16000	27	22	23	31	36	36	30	33	36	39	74	41	37	33	25	17	S							
20000	52	20	50	28	33	33	56	5 8	32	34	37	35	30	54	16	4								
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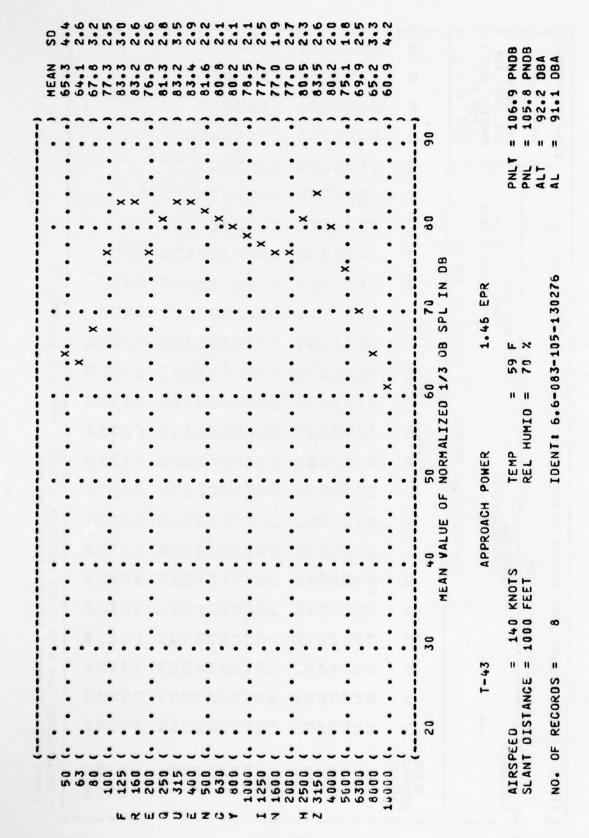
* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12 * BAND WHICH DETERMINES THE TONE CORRECTION (C).

	GROUND-TO-GROUND P	PROPAGATION					•	OMEGA 6.6
AIRCRAFT : T-43		(OPERATIONS (TAKEOFF (1.97 E	POWER		8	= 01	59 F 70 %	8168
		(AIRSPEE	0 = 200 KNOTS	118	DELTA N =	0.0 08	^	PAGE M1
SLANT DISTANCE	A.	ALT**	PNL	PNLT**		SEL	SELT**	EPNL **
(FEET)	(DBA)	(08A)	(PN08)	(PNDB)		(00)	(08)	(EPNDB)
200	105.1	105.7	119.1	119.7		104.9	106.0	109.9
250	102.9	103.5	116.9	117.5		103.7	104.8	108.6
315	100.7	101.3	114.6	115.1		102.5	103.6	107.3
004	98.5	99.1	112.2	112.8		101.3	102.4	106.0
200	96.2	96.8	109.7	110.3		100.0	101.1	104.5
630	93.9	4.96	107.1	1.07.6		98.6	2.66	102.8
800	91.4	92.0	104.3	104.9		97.2	98.3	101.1
1000	89.0	89.5	101.3	101.9		95.7	96.8	99.1
1250	86.3	6.98	98.1	98.7		94.1	95.2	6.96
1600	83.7	84.2	9.46	95.2		95.4	93.5	4.46
2000	80.9	81.4	91.0	91.5		2.06	91.7	91.7
2500	77.8	78.4	87.2	87.8		88.6	89.7	6.88
3150	74.5	75.1	83.3	83.9		86.3	97.4	86.1
4000	70.8	71.3	78.9	19.4		83.6	84.5	82.5
2000	2.99	67.1	74.2	74.5		80.5	81.2	78.5
6300	62.3	62.5	69.1	69.3		77.1	77.5	74.2
0000	58.3	58.4	04.8	6.49		74.1	74.3	7.07
10000	53.9	53.9	60.2	509		7.07	70.7	66.8
12500	49.2	49.2	55.1	55.1		67.0	67.0	62.8
16000	0.44	0.44	49.7	1.64		62.8	62.8	58.3
20000	38.4	38.4	43.3	43.3		58.5	58.5	53.0

** EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

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	1-43				-	•	APPROACH F		OWER			200	METE	EOROL TE RE	TEMP TEMP REL HU	Y: HUMID	= 59	r %		A/C OPS PROF	000	KE 10	83 83 83
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315	2	14		87			2	2	+		2	σ	σ	80	80	•	76	6	96	92	90	90	6
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1250	m	62		52			S	6	-	~	6	1		1	7	1	1	80	1	20	9	28	51
1600	1	09		73			2	1	6	1	2	1		1	7	~	1	1	1	69	25	64	
2000	5	58		7.1			7	2	1	1	2	7		1	9	9	-	~	စ	29	20	38	
2500	1	96		69			80	2	+	1	2	1		9	9	9	9	9	S.	25	0 4	52	•
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25000	2	34		45		6	-	2	2		t	7		0									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8 ** BAND WHICH DETERMINES THE TONE CORRECTION (C).

AIR-T0-6	AIR-TO-GROUND PROP	AGATION) OMEGA 6.6
AIRCRAFT: T-43		(OPERATION: (APPROACH POWER (1.46 EPR	POWER	~~~	METEOROLOGY: TEMP REL HUM	1 01	= 59 F = 70 %) A/C CODE: 083 OPS CODE: 105 PROFILE VER:
	Y	(AIRSPEED	= 140 KNOTS	TS)	DELTA N =	0.0	8) 13 FEB 76) PAGE I2
SLANT DISTANCE	AL	ALT**	PNL	PNLT**		SEL		FPNL**
(FEET)	(08A)	(08A)	(PN 08)	(PN08)		(08)	(08)	(E
200	109.5	110.5	124.5	125.6		109.7	1111	
250	107.1	108.1	122.2	123.2		108.3	109.	
315	104.6	105.7	119.8	120.8		106.6	108.	
004	105.1	103.1	117.2	118.3		105.3	3 106.	
200	99.5	100.5	114.6	115.7		103.7	105.	1 109.5
900	0.46	95.1	108.9	110.0		100-1	101.	
•								
1000	91.1	92.2	105.8	106.9		98.	•66	
1250	88.1	89.2	102.5	103.6		96	97.	7 101.4
1600	85.1	86.1	0.66	100.0		94.	95.	
2000	82.0	83.0	95.1	96.2		95.5	93.	
2500	78.8	6.62	91.0	92.1		900	91.	
3150	15.7	16.8	86.8	87.9		87.9	. 68 6	3 89.7
0007	72.6	73.4	83.4	84.3		85.6	86.	
5300	4.69	70.1	6.67	80.5		83.6	84.	
6300	66.2	9•99	76.2	76.6		81.4	82.	
9000	62.8	63.0	72.4	72.7		79.(79.	
10000	59.3	59.3	68.5	58.5		76.5	5 76.	
12500	55.5	55.5	64.3	64.3		73.1	73.	
16000	51.6	51.6	6.65	6 * 65		70.6	3 70.	
20000	4.2.4	4.7.4	55.5	55.5		9.19	5 67.	6 64.7
25000			0	0 07		, , ,		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

TEMP = 59 F REL HUNIO = 70 X NO. OF RECORDS: 8 10ENT: 6.6-083-105-130276-A 10ENT: 6.6-083-105-130276-A A+ A	250 (1-43 1-46 EPR AIRSPEED =	-	40 KNO	KNOTS				•	A .		•	<u>م</u>
TOENTI 6.6-083-105-130276-A TOENTI 6.6-083-130276-A 315 (= 59 F N = F	75.0 DB DS: 8		70 %				•		٠ •		
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GROUND-TO-GROUND PROPAGATION T-43 (FREQUENCY BANG 26 27 28 27 28 29 39 39 39 39 39 39 39 39 39 39 39 39 39	METEOROLOGY: TEMP TEMP TEMP TEMP TEMP TEMP TEMP TEMP	MID = 59 0 08 33 34 84 89 87 81 77 81 77 78	35 36 97 96 93 94 93 94	A/C CODE OPS CODE PROFILE 13 FEB 7	9.9
17 18 19 20 21 22 23 24 25 26 27 72 71 86 92 92 86 91 93 93 91 72 71 75 84 90 90 84 89 91 93 93 91 72 71 75 84 90 90 84 89 91 91 89 70 66 65 69 69 73 82 83 81 65 66 65 69 69 69 69 69 91 91 89 87 85 66 65 69 69 69 69 69 69 87 89 87 85 66 69 69 69 69 69 69 69 69 69 69 69 69	KNOTS 26 27 28 2 93 91 91 91 9 93 92 93 92 93 92 93 93 94 94 94 94 94 94 94 94 94 94 94 94 94	ELTE OROLOGO NUMBER 30 31 89 88 87 86 87 86 76 75 74 73 71 76 73 74 74 73	MID = 59 *0 DB 33 34 89 93 87 91 84 89 80 84 77 81 77 72 76	8 66 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		
T-43 (AIRSPEED = 140 KNOTS (AIRSPEED = 140 KNOTS 17 18 19 20 21 22 23 24 25 26 27 74 73 77 86 92 92 86 91 93 93 91 75 71 75 84 90 90 84 89 91 91 89 76 69 73 82 88 88 82 87 89 87 85 66 65 69 73 82 88 88 82 87 89 87 85 66 65 69 73 84 84 77 82 84 85 83 66 65 69 74 78 77 80 81 79 60 59 63 71 76 75 69 74 78 78 77 58 57 60 68 73 72 66 71 75 76 74 58 57 60 68 73 72 66 71 75 76 74 58 57 60 68 73 72 66 71 75 76 74 58 57 60 68 73 72 66 71 75 76 74 59 54 56 64 69 69 62 67 72 74 72 50 46 49 56 64 69 69 52 67 72 74 51 28 29 36 41 40 34 39 43 48 51 27 23 25 37 34 39 38 31 35 40 45 28 21 22 29 34 33 26 30 33 34 35 29 25 27 34 39 38 31 35 40 45 20 29 27 21 22 29 34 33 26 30 34 35 20 29 27 21 22 29 34 33 26 30 33 34 35	KNOTS) FREQUENCY BANG 26 27 28 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	NUMBER 30 31 30 31 30 88 87 86 85 84 85 84 76 75 74 73 74 73	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	E 60 8 8		DE: 105
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(* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS! 8 * BAND WHICH DETERMINES THE TONE CORRECTION (C).

TT-43 (OPERATION:) HETEOROLGGY:) A/C C (1.46 EPR) DELTA N = 0.0 DB) PROPER COLOGY:) A/C C (1.46 EPR) DELTA N = 0.0 DB) PROPER COLOGY:) A/C C C C C C C C C C C C C C C C C C C	IRCRAFT:	GROUND-TO-GROUND F	ROP					•	OMEGA 6.6
AL ALT** PNL PNLT** SEL SELT** (08A) (08A) (08A) (08A) (08B)	1-43		OPER	POWER	000	METEOROLO TEM REL	Q I	59	A/C CODE: 183 OPS CODE: 185 PROFILE VER:
AL ALT** PNL PNLT** SEL SELT** (DBA) (DBA) (PNDB) (PNDB) (DB) (DB) (DB) 104.5 105.5 119.5 120.6 104.7 106.1 107.1 106.1 107.2 110.2 110.3 104.7 106.1 107.2 110.2 110.3 104.7 106.1 107.2 110.5 100.3 104.7 106.1 100.7 110.6 100.6 110.6 100.6 110.6 100.3 101.7 100.1 100.6 110.6 100.8 100.3 101.7 100.1 100.6 100.6 100.8 100.6 100.			(AIRSPEED	= 140) TS	z	0	^ ^	13 FEB 76 PAGE M2
104.5 105.5 1119.5 120.6 100.7 100.1 100.1 100.1 100.2 100.2 110.5	LANT DISTANCE	AL	ALT**	PN	PNLT**		SEL	SELT**	EPNL
104.5 105.5 119.5 120.6 100.7 110.2 99.6 100.7 114.6 115.8 101.8 101.8 97.1 100.7 114.6 115.8 101.8 101.8 94.5 100.7 114.6 115.3 101.7 94.5 96.1 100.6 110.6 101.6 98.7 100.1 91.8 92.8 100.6 101.6 97.0 98.7 100.1 86.1 87.1 100.6 101.6 97.0 98.7 85.0 90.0 104.9 95.2 96.6 85.1 97.1 97.1 98.1 97.2 96.6 85.0 96.1 97.1 96.3 97.1 97.2 85.1 97.1 96.1 96.2 96.6 85.0 96.2 96.6 97.1 97.1 96.1 96.2 96.6 86.1 97.1 96.1 97.2 86.2 96.6 97.2 96.6 86.3 77.6 84.2 86.8 86.4 56.8 56.6 77.6 86.4 56.8 56.6 56.6 87.4 47.7 41.7 4	(FEET)	(084)	(DBA)	(PN08)	(PN08)		(08)		(EPNDB)
402.1 103.1 117.2 118.2 103.3 104.7 99.6 100.7 114.8 115.8 101.8 103.2 99.6 100.7 114.8 115.8 101.8 103.2 94.5 98.1 110.6 110.6 98.7 101.7 91.6 92.8 106.8 107.8 97.0 98.7 93.0 90.0 101.6 97.1 96.5 96.6 73.0 84.1 97.1 96.2 96.6 73.1 74.2 84.5 86.8 86.8 86.4 66.3 74.6 86.8 86.8 64.0 61.7 64.6 69.3 77.6 78.6 64.0 61.7 64.6 69.3 77.6 78.6 65.4 66.3 74.6 68.6 77.6 78.6 64.0 63.1 63.6 68.8 68.4 58.6 47.6 47.6 58.6 68.8 68.4 58.6 42.7 44.7 44.7 44.7 44.7 44.7 44.7 52.4 48.2 48.2 66.9 60.9 60.9 56.6 56.6 56.6 56.6 56.	200	104.5	105.5	119.5	120.6			106.	110.4
99.6 100.7 114.8 115.8 1101.8 103.2 101.7 114.8 115.8 1101.8 103.2 100.3 101.7 110.6 99.1 110.6 97.0 98.1 110.1 110.6 97.0 98.7 110.1 100.6 107.8 97.0 98.4 97.0 98.4 97.0 98.4 97.0 98.4 97.0 97.0 98.4 97.0 98.4 97.0 98.4 97.0 98.4 97.0 98.4 97.0 98.4 97.0 97.0 97.0 98.4 97.0 97.0 97.0 97.0 97.0 97.0 97.0 97.0	250	102.1	103.1	117.2	118.2		103.3	104.	109.1
97.1 98.1 112.2 113.3 100.3 100.3 101.7 109.6 110.6 110.6 10	315	9.66	100.7	114.8	115.8			103.	107.6
94.5 95.5 109.6 110.6 93.7 110.1 106.8 107.8 93.7 110.1 98.7 110.1 98.7 110.1 98.7 110.1 98.7 110.1 98.7 110.1 98.1 98.1 98.1 97.0 98.4 95.2 96.6 93.0 88.1 97.1 98.1 98.1 98.1 98.1 98.1 98.1 98.1 98	004	97.1	98.1	112.2	113,3			101.	106.1
91.8 92.8 106.8 107.8 97.0 98.4 89.0 90.0 103.8 104.9 95.2 96.6 95.2 96.6 93.0 84.1 97.1 98.1 99.2 96.5 95.2 96.6 93.0 84.1 97.1 98.1 90.2 92.6 93.1 90.2 92.1 90.2 92.1 93.2 93.1 90.2 92.1 93.2 93.1 90.2 93.2 93.2 93.1 90.2 92.1 93.2 93.2 93.2 93.1 90.2 92.1 93.2 93.2 93.2 93.2 93.2 93.2 93.2 93.2	500	94.5	95.5	109.6	110.6		98.7	100.	104.5
86.1 87.1 100.6 104.9 95.2 96.6 83.0 86.1 87.1 100.6 101.6 99.1 99.2 96.6 83.0 84.1 97.1 98.1 99.2 99.7 99.8 86.8 86.8 88.2 97.1 90.2 86.8 86.8 88.2 97.1 90.2 86.8 86.8 88.2 97.1 90.2 86.8 88.2 97.1 90.2 86.8 86.8 88.2 97.1 90.5 95.6 95.6 95.6 95.1 90.5 95.6 97.1 90.5 95.6 97.1 90.5 95.1 90.5 95.1 90.5 95.1 95.1 95.1 95.1 95.1 95.1 95.1 95	630	91.8	95.8	106.8	107.8		97.0	98.	102.7
86.1 87.1 100.6 101.6 93.3 94.3 89.1 77.7 99.1 99.1 99.1 75.6 77.7 89.1 90.2 86.8 89.1 77.7 89.1 90.2 86.8 89.1 77.7 89.1 90.2 86.8 89.1 77.5 84.5 85.6 84.3 80.4 70.5 73.8 74.6 69.3 74.6 69.3 74.6 69.3 74.6 69.3 74.6 69.3 74.6 69.3 74.6 69.3 74.6 69.3 75.2 74.6 69.3 74.6 69.3 74.6 69.3 74.6 69.3 74.6 59.8 64.8 68.4 65.0 57.4 67.6 63.1 63.6 58.8 664.8 75.2 7 72.6 72.7 72.8 72.7 72.8 72.7 72.8 72.7 72.8 72.8	800	89.0	0.06	3	104.9		95.2	96	100.7
83.0 84.1 97.1 98.1 79.8 80.9 93.3 94.3 76.6 77.7 89.1 90.2 73.1 74.2 84.5 85.6 69.4 70.5 73.8 74.6 65.4 66.3 73.8 74.6 65.4 56.8 63.1 63.6 56.4 56.8 63.1 63.6 47.6 47.6 58.6 68.4 42.7 42.7 48.2 48.2 37.4 37.4 41.7 41.7 31.5 31.5 33.8 33.3 31.7 41.7 41.7 56.6 66.6 66.9	1000	86.1	87.1		101.6		8	16	98.5
79.8 80.9 93.3 94.3 89.1 76.6 77.7 89.1 90.2 86.8 86.8 86.8 86.8 86.8 86.8 86.8 86	1250	83.0	84.1	97.1	98.1		91.2	92	0.96
76.6 77.7 89.1 90.2 86.8 86.8 86.8 86.8 73.1 74.2 84.5 85.6 85.6 84.3 81.6 65.4 66.3 73.8 74.6 74.6 78.6 61.0 61.7 64.6 63.1 63.6 69.3 75.2 56.4 56.8 63.1 63.6 59.8 66.8 66.8 47.6 47.6 47.6 53.5 53.5 66.8 66.8 47.6 47.6 53.5 53.5 66.8 66.8 37.4 57.4 41.7 55.6 57.7 55.6 57.7 55.7 55.6 57.7 55.7 55	1600	79.8	80.9	93.3	94.3		89.1	96	93.2
73.1 74.2 84.5 85.6 84.3 84.3 69.4 70.5 73.8 74.6 73.8 74.6 73.6 73.6 74.6 73.6 73.6 74.6 75.2 75.2 74.6 53.1 63.6 69.3 77.6 73.6 73.6 73.6 73.6 73.6 73.6 73	2000	76.6	7.77	89.1	90.2		9	88	0.06
69.4 70.5 73.8 74.6 81.6 65.4 66.3 73.8 74.6 78.6 78.6 61.0 61.7 64.6 69.3 74.6 78.6 78.6 55.4 55.8 74.6 75.2 71.6 52.1 52.4 58.6 58.8 68.4 68.4 47.6 47.6 47.6 53.5 53.5 64.8 64.8 37.4 37.4 41.7 61.9 55.5 55.6 55.6 55.6 55.6 55.6 55.6 55	2500	73.1	74.2	84.5	85.6		+	85	4.98
65.4 66.3 73.8 74.6 78.6 61.0 61.7 64.6 69.3 75.2 56.4 56.8 63.1 63.6 69.3 75.2 71.6 52.1 52.4 58.6 58.8 668.4 67.6 47.6 47.6 53.5 64.8 64.8 37.4 37.4 41.7 41.7 56.6 51.7 56.5 57.5 56.6 57.5 57.5 57.5 57.5 57	3150	4.69	70.5	79.3	90.4		1.	83	82.2
61.0 61.7 64.6 69.3 75.2 56.4 56.8 63.1 63.6 71.6 71.6 71.6 71.6 71.6 71.6 71.6 71	9004	4.59	66.3	73.8	74.6		8	79	77.4
56.4 56.8 63.1 63.6 71.6 52.1 52.4 58.8 68.4 68.4 68.4 68.4 68.4 68.4 68.4 6	2000	61.0	61.7	9.89	69.3		2	92	73.0
47.6 47.6 53.5 53.5 53.5 64.8 42.7 42.7 48.2 48.2 64.8 37.4 37.4 41.7 41.7 56.6 31.5 31.5 33.8 33.8 51.7 26.5 26.7 26.7 26.5 26.6	6300	56.4	999	63.1	63.6		+	72	68.2
47.6 47.6 53.5 53.5 64.8 42.7 42.7 48.2 48.2 61.9 51.9 51.7 41.7 55.6 51.7 55.6 51.7 55.0 51.7 5	9000	52.1	52.4	58.6			8	58.	64.3
42.7 42.7 48.2 48.2 60.9 37.4 37.4 41.7 41.7 56.6 31.5 31.5 33.8 33.8 51.7	10000	47.6		53.5	53.5		64.8		0.09
37.4 57.4 41.7 41.7 56.6 31.5 31.5 33.8 33.8 51.7	12500	42.7	42.7	48.2	48.2		6.09		55.7
31.5 31.5 33.8 33.8 51.7	16000	37.4	37.4	41.7	41.7		56.6		50.5
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	25.000	0 30	26.2						

(* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

250 (-	• 46 EPR							•		•	A+	•	*	•
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1250	•	•		٠	•		•	A+	•		•				•
1600	•	•		•	•		A +		•	4					•
2000	•		•	:		A		•	a.	:	:	•		•	•
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3150 (•	100			A +		<u>م</u>		•		•				•
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10	20	30 MEAN VALUE	40 OF NORMALIZE	50 ED 1/3 08	60 RESPLIN DB	20		80		
1-43		INTERMEDIATE	DIATE POWER	1.	21 EPR					
AIRSPEED = SLANT DISTANCE =	250 K	NOTS	TEMP REL HUMIO	= 59 F 0 = 70 X			PNLT		8 .	8 9
NO. OF RECORDS =	•		TOCNT. 6	5. 6-647-106-1707E	27.2021-		ALT	11 1	4.5	

	AIR-	10-6	AIR-TO-GROUND	IO PRO	OPAG	ATI	NO														OMEGA		9.9	
AIRCRAFT	- 1					OPER	NTER 1.21	RATION: INTERMEDIA 1.21 EPR	ATE	POWER	œ			METEOROLOGYS TEMP REL HU	ROLO TEM REL	GY : HUMI	" 01	59	4.%	7	PRO	A/C CODES	E1 108	83 06
						4	AIRSPEE	EE O	= 25	0	KNOTS			ELTA	Z	•	0 08				PAG	H .	2 2	
SLANT				11		11				FRE	QUEN	CY B	Z	NOMB	. 1.1									
DISTANCE (FEET)	17	18	19	20	21	22	23	54	52	56	27 2	28	59	30	31	32	33	34	35	36	37	38	39	3
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250	29	99	99	15	82	84	11	83	85	83	82	81	81	80	80	82	89	90	95	93	88	98	87	90
315	69	99	99	73		82	15		83	81	62	62		7.8	7.8	80	87		06	90	98	84	84	
004		*9	10	11		29	73		81	62	11	11		92	15	7.8	85		87	87	83	80	80	80
201		9	62	69		11	7.1		4	92	15	14		74	73	15	82		85	85	80	11	16	2
630		60	9	29		15	69		11	14	73	72		72	7.1	73	8.0		82	81	92	73	7.1	7
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00000		1																						

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: < BAND WHICH DETERMINES THE TONE CORRECTION (C).

ATP-TO-6	ATP-TO-GROUND PROP	AGATTON					••	OMEGA 6 6
							(
A IRCRAFT:		(OPERATION:	DIATE POWER		METEOROLOGY: TEMP		6	A/C CODE: 083 OPS CODE: 106
1-43		(1.21 EF	8		REL	HUMID =	70%	ILE VE
		(AIRSPEEU	0 = 250 KNOT	15	DELTA N =	0.0 08	-	PAGE I3
SLANT DISTANCE	¥	ALT**	PNL	PNLT**		SEL	SEL T**	EPNL**
(FEET)	(084)	(08A)	(PN08)	(PN08)		(08)	(08)	(EPNDB)
200	162.5	103.6	116.7	117.9		100.6	102.	106.7
250	100.0	101.2	114.3	115.5		99.2	101.1	105.2
315	97.5	98.7	111.8	112.9		9.76	-66	103.7
004	6.46	96.1	109.1	110.3		96.0	97.	102.1
200	95.2	93.3	106.4	107.6		94.3	96	100.4
630	4.68	90.5	103.6	104.8		95.5	• 46	98.6
800	96.4	9.28	100.6	101.8		9006		9.96
1000	83.3	84.5	97.4	98.6		88.4		4.46
1256	80.0	81.2	0.46	95.1		86.2	88.	91.9
1600	9.92	77.8	90.2	91.4		83.7	85.	89.2
2000		74.2	86.2	87.4		81.1	83.	86.2
2500		70.4	81.9	83.1		78.4	80.	82.9
3150	65.5	2.99	77.8	78.9		75.5	77.	1.61
0004	61.7	62.7	73.3	74.2		72.9	74.4	75.9
2000	58.1	58.8	68.6	69.3		70.2	71.	71.8
6300	54.5	6.46	2.49	65.1		67.6	68.	68.5
8000	50.9	51.2	9.09	60.8		65.1	65.	65.0
10000	47.4	47.4	56.3	56.3		65.5	62.	61.4
12500	43.7	43.7	51.8	51.8		59.8	59.	61.6
16000	39.8	39.8	47.0	47.0		57.0	57.	24.0
20005	35.7	35.7	41.7	41.7		53.8	53.8	1.64
250.00	71 7	71 7	75 7	75 7			•	

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

X X X X X X X X X X X X X X X X X X X	1.21 EPR 1.21 EPR AIRSPEED = 250 KNOTS TFMP = 59 F 251 HUMID = 70 %	0.0 DB 0RDS: 8 A+		* . A.+	d* + A		· 4b ·	. A+ . *P		. *p . *p		. 44 . *P .		. A+ .	· · · · · ·	· · · · · · · · · · · · · · · · · · ·			
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ALTERNEON ALTE		GROU	GROUND-TO-GROUN	0-6R	GROUND-TO-GROUND	å	0	AGATION														OMEGA 6.6	Α Θ	9	
FREQUENCY BAND NUMBER FREQUENCY BAND NUMBER	INCRAFT	_ <u>}</u>					1 4	ATIO NTER 1.21 IRSP	AEDI EED	1 5!	POWER	1		2000	ETEOR	TENP REL						AVC OPS PROF PAGE	000E	6 K 1 0	mo i
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16 15 13 18 23 26 26 19 25 29 32 35 34 33 29 26 28 20 16 15 13 18 23 24 16 22 26 28 32 31 30 27 22 19 19 9 14 13 11 15 21 21 14 19 23 25 27 26 24 21 15 10 8 12 10 8 13 18 10 16 19 20 23 21 18 14 6 9 8 6 10 15 15 7 12 15 16 17 14 11 5 7 5 3 7 12 12 3 8 11 10 11 7 2	6300	20	19	18	22	28	28	22	28	32	35	39	38	39	37		33	9	30	22	00				
16 15 13 18 23 24 16 22 26 28 32 31 30 27 22 19 19 1 4 13 11 15 21 21 14 19 23 25 27 26 24 21 15 10 8 1 2 10 18 10 16 19 20 23 21 18 14 5 9 8 6 10 15 15 7 12 15 16 17 14 11 5 7 5 3 7 12 12 3 8 11 10 11 7 2	8000	18	17	15	20	56	56	13	52	59	35	35	35	34	33		92	60	20	10					
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1 7 5 3 7 12 12 3 8 11 10 11 7	20000	6	80	9	10	15	15	7			16		14		2										
	25000	1	2	m	1	12	12	m	80		10		7	2											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

* BAND WHICH DETERMINES THE TONE CORRECTION (C).

	GROUND-TO-GROUND P	PROPAGATION						OMEGA 6.6
AIRCRAFT :		1 2 2	48 EDIATE POWER		METEOROLOGY : TEMP		59 F	00E
2		AIRSPEE	D = 250 KNOTS	S	DELTA N =	0.0 08		
SLANT DISTANCE	4	ALT	PNL	PNL T**		SEL	SELT**	EPNL **
(FEET)	(08A)	(DBA)	(PN08)	(PNDB)		(98)	(08)	(EPNDB)
200	97.5	98.6	111.7	112.9		9.56	97.5	101.7
250	95.0	96.2	109.3	110.4		2.46	96.1	100.2
315	95.5	93.7	106.8	107.9		95.6	94.5	7.86
004	6.68	91.1	104.1	105.3		91.0	95.9	97.1
200	87.2	88.3	101.4	102.5		89.3	91.2	95.3
630		85.5	98.5	1.66		87.5	3.00	93.5
900	81.4	82.6	95.5	96.6		85.5	87.4	91.4
1000	78.3	79.4	92.2	93.3		83.4	85.3	89.1
1250	75.0	76.1	88.6	89.8		81.1	83.0	96.6
1600	71.5	72.6	84.7	85.9		78.6	80.5	83.7
2000	67.8	6.89	4.08	81.6		15.9	77.8	90.4
2500	63.8	65.0	75.8	6.97		73.0	74.8	76.7
3150	9.65	8.09	71.1	72.2		69.8	71.6	73.0
0000	55.1	56.0	65.8	2.99		66.2	67.8	4.89
2000	50.5	50.9	60.1	60.8		~	63.5	63.3
6300	45.1	45.6	53.3	53.8		ø,	59.0	57.2
9000	40.3	40.5	45.7	•		3	54.8	50.5
10000	35.4	35.4	39.4	39.4		50.6	9.05	44.5
12500	30.3	30.3	31.8	31.8		46.5	46.5	37.8
16000	54.9	24.9	23.3	23.3		42.1	42.1	30.4
20000	19.1	19.1	9.1	9.1		37.2	37.2	17.2
1 1 1								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. AUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

250 6	1-43	804	INTERMEDIATE	POWER		40	•		
	AIRS	EED = 250							
315 (OF I	_	KEL HUMID =	707	•	• A •			
000	NO. OF	RECORDS	1 8	•		A	• •		
200 (• • • • • • • • • • • • • • • • • • • •	A+	• • • • • • • • • • • • • • • • • • • •	P.	:	
630 (•			4		•		
800 (•		•	+ A.	a. *	•		
1000				A		* b.		:	
1250 (. A+	•	Q. *			
1600 (•	•	• A •	•				
2000 (:	:		A+	•	•		:	
2500 (•		A	d.	٠				
3150 (A+	d.					
0004		. A+	d.	•	•				
2000		. A+	. d.		•	•		•	
6300 (. A	•			•				
8000	A+ ×		•		•				
10000		:		•	•		GROUND TO	GROUND	
12500 (٠	•	11 1	PNLT	
16000 (- N	* 8	•			A = AL	- ب	
20000 (:				:	•	•	
25000 (0.7	5.0	6.0	7.0	8.0	0.0			120

EED = 250 KNOTS = 59 F REL HUMID = 70 % . S.T E E6.6-083-106-130276-A E6.6-083-106-130276-A E6.6-083-106-130276-A S.T E . S.T E .		1.21		INIERMEDIANE		POWER						s.	-	ш	
DELTA N = 0.0 DB NO. OF RECORDS: 8 IDENT: 6.6-003-106-130276-A IDENT: 6.6-003-106-130276-A ST. E	•	AIRSPE TEMP =	" "									'n			
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St. 18	•											w			
S.T. E. S.T. E. S.T. E. S.T. E. S.T. E. S.T. E. S.T. E. S.T. E. S.T. E. S.T. E. S.T. E. S.T. E. S.T. E. S.T. E. S.T. S.T	•			•		•					ST	m.			
S.T E	•		1	:	:	:	:	:		. S. T	m	:	:	•	
S T E	•		•	•		•				T S	w				
SET S S TE S TE S	•		E.	•		•			Š					•	
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	•	×		•	:	•	:	:			:	:	:	:	

T-43A AIRCRAFT T-43A AIRCRAFT										> 0	T-43A AIRCRAFT
AIRCRAFT		₩.		SNO	2	PAGE	564-569 570-575 576-581 582-587 588-593	PROVIDED:	AND FREQUENCY DISTANCE FROM SOURCE EL SOUND LEVEL 250 FEET FROM SOURCE	H LABORATOR BASE, OTIR	AIRCRAFT AIRCRAFT
464-11 464-11		PRODUCED ON THE GROUND	3A AIRCRAFT	DURING GROUND RUN-UP OPERATIONS	74-083-001 RAFT CODE: 083 ILE VERSION: A ER PROGRAM OMEGA 8.			THE FOLLOWING DATA ARE PROVIDED	OF ANGLE ANGLE AND NOISE LEV EVEL OVERALL ANGLE AT	N L RES EARCH A L R A R C C C C C C C C C C C C C C C C C	484-11 484-11
AIRCRAFT		NOISE PRO	T-43A	DURING GR	TEST AIRG PROF		EPR EPR EPR EPR		ALIZED DATA AS A FUNCTION OF AN NORMALIZED SPL AT 250 FEET E LEVELS AS A FUNCTION OF ANGL! PERCETVED NOISE LEVEL TONE-CORECTED, PERCETVED NOIS! A-WEIGHTED OVERALL SOUND LEVEL TONE-CORRECTED, A WEIGHTED OVER E LEVELS AS A FUNCTION OF ANGL!	E F C C C C C C C C C C C C C C C C C C	AIRCRAFT
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4						POWER SETTING	34% RPM, 1.05 E 80% RPM, 1.50 E 85% RPM, 1.70 E 90% RPM, 1.84 E 97% RPM, 2.01 E	FOR BACH POWER SETTING,	NORMALIZED DATA AS A FUNCTION NORMALIZED SPL AT 250 FEET NOISE LEVELS AS A FUNCTION OF PERCEIVED NOISE LEVEL TONE-CORRECTED, PERCEIVED I A-WEIGHTED OVERRECTED, A-WEIGHTED NOISE LEVELS AS A FUNCTION OF N	R O S P A C E	1-434 454-1
AIRCRAFT AIRCRAFT										41	AIRCRAFT
1-43A											T-43A T-43A

(TABLE:		PERCEIVED NOISE LEVE AS A FUNCTION OF ANG	OISE L	, w	(PND3) AND DIS	DISTANCE	FROM S	SOURCE				- 1) IDENTI) OMEGA) TEST	- CA-	TIONS 2 83-001	
(NOISE SOURCE/SUBJECT (NOISE SOURCE/SUBJECT (ENG. JT&D-9A (GROUND RUNUP	A JT & D	SUBJECT & AIRCRAFT -9A NUP	- =		OPER	OPERATION: IDLE, 34% SINGLE ENG	34% RPM ENGINE			2222	METEOROLOGY B TEMP 3AR PRES REL HUMI DELTA N = -	PRESS HUMID	= 59 = 29.92 = 70	9 F H H H H H H H	g	AIRCRAF OPERATI PROFILE OB APR		CODE	083 02013)
(DISTANCE (FEET)	0	9	23	30	3	50	,60	7.0	ANGLE		(DEGREES)	110	120	130	140	150	160	170	186
200	112.1		1001	110	107.0		106 2	104.7	9 80	402.4	•	404.4	0.50		•	102.2	0.80	00	08.0
2																		200	200
215	103.0		101	105.4	103.0		104.0	100.4	200	10001	100.0	1000	0.00	103.9	100.0	93.0	92.2	0.00	0.00
004	105.0			103	1000		000	97.6				97.1	98.6		4 10	0.40	90.0	91.7	91.7
200	132.4			100	98.2		96.5	95.0			oc.	4.46	95.9			92.3	88.1	89.3	89.1
630	99.7	97.4		97.	95.4		93.8	92.3			0	91.6	93.1			89.5	85.3	86.7	86.4
008	96.8			94.	95.5	92.1	90.9	4.68			O	88.5	90.1	90.6	87.0	96.6	82.4	84.0	83.6
•																			-
1000	93.7			91.	9.68	89.	87.8	86.3	80.1	83.2	85.7	85.2	86.8	87.5	83.9	83.6	19.5	81.1	80.8
1256	90.3			88.	86.0		84.4	85.8	9.91	19.8	85.3	81.6	83.5	84.3	80.8	80.4	16.5	78.1	77.7
1600	96.7		84.0	94.	82.3		80.7	79.1	72.9	76.1	78.6	77.7	80.2	81.0	77.5	77.1	73.2	14.9	74.4
2336	42.7		80.1	80.	78.2		76.6	75.0	68.7	72.4	74.7	74.0	7.97	77.5	74.0	73.6	9.69	71.3	70.9
(25.10	78.2			7.97	73.7	73.2	72.0	4.07	64.1	68.5	70.6	70.1	72.8	73.6	70.0	2.69	65.7	67.5	67.1
(3150	73.2			72.	68.5		67.5	65.1	58.7	2.49	999	69.69	68.7	4.69	1.59	4 . 59	61.3	63.2	62.7
000+	67.5		07.3	68.	65.6		65.5	58.9	52.0	4.65	61.4	61.2	64.0	2.49	61.0	60.7	56.5	58.5	58.0
0005	62.4	61.3		63.	9.95		6.95	51.9	1.44	53.9	2.95	699	58.9	9.65	9.55		6.05	53.1	52.6
6330	56.7	1.55		57.	50.6		50.0	45.1	36.8	47.8	20.0	50.0	53.0	53.8	9.64	49.3	44.2	47.1	46.7
0008)	50.9	6.64		51.	43.5		45.8	37.0	27.0	9.04	43.0	43.1	46.7	47.8	45.4	41.9	36.6	39.8	39.2
_																			-
10000	43.9			43.	35.1	34.3	32.8	25.7	17.3	30.7	34.1	34.5	38.2	39.5	34.4	33.6	27.9	58.9	30.2
(12500	35.6			33.	24.2		19.8	14.4	7.6	15.8	21.9	26.1	59.6	32.1	25.5	24.1	17.4	17.7	16.9
16006	26.3	1 24.7	20.5		13.3		6.8	3.0		1.0	9.6	14.7	16.9	21.8	15.3	13.0	6.8	5.5	3.6
1 20000	13.2	6.6			2.4							3.3	4.2	10.6	5.1	1.9			
0 52000	.2																		-
																			-
()								-		-	-								

	AS	A FUNCTION	ON OF	AS A FUNCTION OF ANGLE A	AND DIS		FROM S	SOURCE) OMEGA	ONEGA 8.2 TEST 74-083-001	83-001	
NOISE SOUR	E SOURCE/SUBJECT: 1-434 AIRCRAFT ENG. JT40-94 GROUND RUNUP	AIRCRAF 9A UP			OPER	OPERATION: IDLE, 3 SINGLE	34% APH ENGINE				METEOROLOGY TEMP BAR PRE REL HUN DELTA N =	PRESS = 2 HUNTD =	= 59 = 29.92 = 70	L H X	÷	PROFER PAGE	AIRCAAT CODE OPERATION CODE PROFILE VERSION 08 APR 76 PAGE E1	CODE CODE RS 10	063 02013 N A
DISTANCE (FEET)	3	10	20	30	9	20	0.9	7.0	ANGL	1	(DEGREES) 90 100	110	120	130	140	150	160	170	180
200	114.0	1111.1	110.5	112.	110.4		108.4	5		104.1		106.0				104.0	99.6	101.6	100.
315	109.3	100.5	105.9	107.6	165.7	104.8	103.7	103.8	96.4	99.3	101.2	101.2	102.6	103.5	99.6	99.3	94.9	96.8	96.1
400	106.9	104.0	103.4	105.	103.2		101.3	101.3	93.9	96.8		98.7				1.96	95.4	94.46	93.
5 00	104.3		-	102.	100.6		2.86	99.8	91.3	94.1		96.0				94.1	89.7	91.9	91.
630	101.6	2.06		66	97.9		96.0	96.0	98.6	91.2		93.2				91.3	86.9	89.3	88
900	98.7	95.8	95.2	97.0	95.0	94.1	93.1	93.1	85.7	88.1		90.1		92.7	999	88.5	84.0	96.6	85.6
1900	95.6	92.7	92.1	93.	91.9		6.69	0.06	82.5	84.8	86.9	86.8	88.3	89.5	85.4	85.4	81.1	83.8	82.7
1250	92.2			93.5	88.5	87.0	86.5	96.6	79.1	81.4	83.5	93.2	85.0	96.4	82.3	82.2	78.1	80.7	19.6
16 0 0	88.6	1.69		86.	84.8		85.8	85.9	75.4	7.27	19.8	79.3	81.7	83.1	79.1	19.0	14.8	77.5	76.1
2000	84.6			82.	80.7		78.7	78.7	71.2	74.1	15.8	15.6	78.2	9.62	75.5	75.5	71.2	24.0	72.
2500	80.1			78.	76.1		74.2	74.1	66.5	70.2	711.7	71.7	74.3	75.7	71.6	71.6	67.3	70.1	69
3150	75.1			7 4.	71.0		2.69	68.8	61.2	69.69	67.4	67.5	70.2	71.5	67.3	67.3	65.9	65.8	64.
0000	69.1			69	9.49		64.2	61.9	94.6	8.09	62.3	62.4	65.2	4.99	62.3	62.2	57.8	9.09	59.
5000	63.6			9	58.1		58.2	54.5	46.1	54.9	6.95	56.8	59.8	6009	56.5	56.5	51.8	54.7	53.
6330	51.5			50.	51.6		51.4	46.6	37.0	48.5	30.5	50.6	53.6	24.7	50.5	50.1	6.44	48.1	47.
9008	51.2		50.3	51.	44.0	44.7	43.3	37.8	27.5	41.0	43.2	43.4	47.0	48.2	45.7	45.2	36.9	40.3	39.
10000	43.9	42.7	42.1	43.	35.1	34.3	32.8	25.7	17.3	30.7	34.1	34.5	38.2	39.5	34.4	33.6	27.9	29.9	30.
12500	35.6			33.	24.2	22.	19.8	14.4	7.6	15.8	21.9	26.1	29.6	32.1	25.5	24.1	17.4	17.7	16.
15000	26.3	24.7		19.	13.3	11.2	6.8	3.0		1.0	9.6	14.7	16.9	21.8	15.3	13.0	6.8	5.5	3.6
20000	13.2		7.0		2.4							3.3	4.2	10.5	5.1	1.9			
25000																			

NOISE SOU	AS A	AS A FUNCTION OF	N OF A	ANGLE A	IND DISTANCE	TANCE	FROM S	SOURCE) ONE	CA 8.	83-001	
GROUN GROUN	SCE/S JT80-	UBJECT I AIRCRAFT 9A UP	-		OPERA I S	OPERATION: IDLE, 3 Singlé	34% RPH ENGINE				TETEDROLOGY TEMP BAR PRE REL HUM DELTA N =	PRESS HUMID	= 59.92 = 29.92 = 70	L H X	ě	PROPER	AUCRAFT CODE 08 OPERATION CODE 02 PROFILE VERSION 108 APR 76	C005 C006 ERSION	083 02013 A
DISTANCE		07	20	30	9	50	0.9	7.0	ANGLE		(DEGREES) 9.0 100	110	120	130	140	150	160	170	180
200	1.16	1.56	95.6		93.4	93.6	95.5	90.1	83.2	88.3	90.06	9.68	91.8	92.2	88.3	87.5	63.1	85.0	85.0
315	95.4	93.4	93.4	94.1	91.2	91.3	90.2	87.9	78.6	85.0	88.3	87.3	89.5	89.9	86.1	85.3	78.6	82.8	82.8
100	2006	88.7	88.7	89.4	46.4	86.6	85.5	83.1	76.2	81.2	83.5	82.5	84.8	85.2	81.3	80.6	76.3	78.1	78.1
200	88.2	86.2	86.2	87.0	83.9	84.1	83.0	80.6	73.6	78.7	81.0	80.0	82.3	82.7	78.9	78.2	73.9	75.7	75.7
630	92.6	83.7	83.7	84.4	81.3	81.5	4.08	17.9	6.02	76.1	78.4	17.4	19.7	80.1	76.3	15.7	71.4	73.2	73.2
900	85.9	81.0	81.3	81.8	18.5	78.7	17.6	75.1	68.1	73.4	15.6	74.7	77.1	17.5	73.7	73.1	68.9	2002	20.6
1000	80.0	78.2	78.2	79.	75.6	75.8	74.8	72.1	65.1	70.5	72.8	71.8	74.3	74.7	70.9	70.3	66.2	68.0	67.9
125u	77.0	75.3	75.3	76.	72.4	72.7	71.7	6.89	61.9	67.5	1.69	68.8	71.4	71.8	68.1	67.5	63.4	65.2	65.0
1600	73.8	72.2	72.2	72.9	69.1	4.69	68.4	65.4	58.5	64.3	66.5	65.7	68.3	8.89	65.1	64.5	60.5	62.2	62.1
2000	10.4	69.0	6 9 9	69	65.5	6.59	65.4	61.7	54.8	6.09	53.2	65.5	65.2	65.7	61.9	61.4	57.4	59.1	58.9
2500	8.00	65.59	65.4	66.1	61.7	62.1	61.2	57.6	50.9	57.4	9.66	59.1	61.8	62.4	58.5	58.0	54.1	55.8	55.6
3150	63.0	61.9	61.7	62.3	57.7	58.0	57.2	53.2	1.94	53.6	55.8	55.4	58.5	58.8	6.45	24.4	50.5	55.2	51.9
40.0	59.0	58.0	57.7	58.5	53.3	53.6	55.9	48.5	42.2	49.5	51.7	51.5	54.3	55.0	51.0	50.5	9.94	48.3	48.0
50.0	54.6	23.7	53.3	53.6	48.7	48.8	48.2	43.5	37.4	45.0	47.2	47.2	50.0	2005	46.6	46.2	42.2	43.9	43.6
6300	6.64	49.1	49.4	48.8	43.7	43.5	43.0	38.2	32.4	40.0	45.4	45.5	45.3	0.94	41.8	41.5	37.6	39.1	38.8
8000	45.0	7.44	43.3	+3.4	38.4	38.0	37.3	35.6	27.3	34.7	37.3	37.8	40.5	41.4	37.2	36.8	33.1	34.2	33.9
10000	30.6	24.8	17.75		3.65	21.0	24.1	36.6	22.0	20.1	81. A	8.CE	25. 2	36.5	22.2	9.15	28.4	0.80	28.7
12560	3.5.8	3.3	31.5		26.3	25.3	24.4	24.2	16.4	23.1	26.1	27.5	29.7	31.3	27.1	26.8	23.5	23.5	23.2
16000	27.5	26.8	25.1		19.5	18.3	17.3	13.5	10.7	16.9	20.0	21.9	23.8	25.8	21.7	21.4	18.4	18.0	17.7
20000	20.9	20.1	18.3	17.0	12.3	11.0	6.6	6.8	5.1	10.7	13.8	16.0	17.6	19.8	16.0	15.8	13.2	12.3	12.0
25.00																			

	AS A	A FUNCTION OF	N OF	ANGLE A	ON	DISTANCE	FROM S	SOURCE) TEST	74-083-00	3-00:	
T-43A ENG.	E SOURCE/SUB T-434 AI ENG. JT40-94 GROUND RUNUP	SOURCE/SUBJECT: 43A AIRCRAFI 1G. JTAD-9A ROUND RUNUP	-		OPERA	ERATION: IDLE, 3 SINGLE	34% RPH ENGINE				METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	PRESS HUMID	= 59 = 29.92 = 70 = 0 08	29 F 2 I N 3 K		AIRC OPER PROF	AIRCRAFT OPERATION PROFILE VEI 08 APR 76 PAGE G1	C00E C00E RSION	083 02013
DISTANCE (FEET)	0	10	50	30	9	5.0	9	2.2	ANGLE	00E	GREES)	110	120	130	140	150	160	170	180
200	9.66	97.0	1.96	98.5	95.9	95.6	9.46	93.9	85.7	0.06	91.8	91.2	93.3	94.3	89.9	4.68	~	87.6	87.0
250	97.3		94.5	96	93.6	93.4	92.3	91.6	83.4	87.7	89.5	88.9	91.0	92.0	87.6	87.1	S	49.58	84.
315	95.6		95.2	94.	91.3	91.1	0.06	89.3	81.1	85.3	47.1	86.0	48.7	89.7	85.3	84.8	2	83.1	82.4
3 0	95.0	90.00	20.00	91.	600	88.7	87.6	80.0	78.6	82.9	84.7	84.1	86.3	87.3	82.9	82.5	σ,	80.8	80.
630	87.5		84.8	86.6	43.7	83.5	82.5	81.7	73.4	77.8	79.5	79.0	81.2	82.2	77.9	77.5	73.0	75.9	75.1
800	84.7		82.1	83.9	81.0	80.8	79.8	78.8	79.6	75.0	76.8	76.2	78.6	19.6	75.3	6.42		73.3	72.
1000	81.9	19.6	79.3		78.0		76.9	75.9	67.6	72.2	73.9	73.4	75.8	76.8	72.5	72.2	•	70.6	69.8
1250	78.9		76.4		74.9		73.9	72.6	4.49	69.1	70.9	70.4	72.9	73.9	2.69	69.3		67.8	67.0
1600	75.7		73.3	75.1	71.6	71.5	9.02	69.5	61.0	66.0	67.7	67.3	8.69	6.07	9.99	66.3		6.49	64.0
2000	72.3		70.0	71.	68.0		67.1	65.4	57.3	62.6	64.3	64.1	2.99	67.8	63.5	63.2		61.8	60.6
2500	69.7		66.5	68.	64.2		63.4	61.4	53.4	29.0	2.09	9.09	63.3	64.5	60.1	59.8	~	58.5	57.5
3150	6 ** 9		65.8	9	60.1		29.4	57.0	49.1	55.5	56.9	57.0	2.65	6.09	50.95	56.3	-	6.49	53.5
4000	60.5		58.6		55.3		94.6	51.5	44.2	80.05	95.6	52.8	55.5	2.95	55.5	52.0	6	20.4	49.5
2000	55.7	54.5	53.9		50.5		49.5	45.8	34.9	46.0	47.9	48.1	6.05	52.0	47.6	47.3	2	45.5	44.
6300	50.7	49.6	48.9		1.44		43.8	39.7	33.4	40.7	45.8	43.1	45.9	6.94	45.5	42.2	2	40.1	39.6
8000	45.3	44.5	43.5		38.9		37.6	33.4	27.8	35.1	37.5	38.1	40.8	41.8	37.5	37.2	+	34.7	34.
10000	39.6		37.7	37.5	32.6	31.9	31.1	26.6	22.0	29.1	31.8	32.8	35.3	36.5	32.2	31.9	4	28.9	28.7
12500	33.8	33.0	31.5		26.3	25.3	54.4	20.2	16.4	23.1	26.1	27.5	29.7	31.3	27.1	26.8	23.5	23.5	23.2
16000	27.5		25.1	24.	19.5	18.3	17.3	13.5	10.7	16.9	20.0	21.9	23.8	25.8	21.7	21.4	4	18.0	17.7
20000	20.9		18.3	17.	12.3	11.0	6.6	6.8	5,1	10.7	13.8	16.0	17.6	19.8	16.0	15.8	2	12.3	12.0
						, , , ,													

i

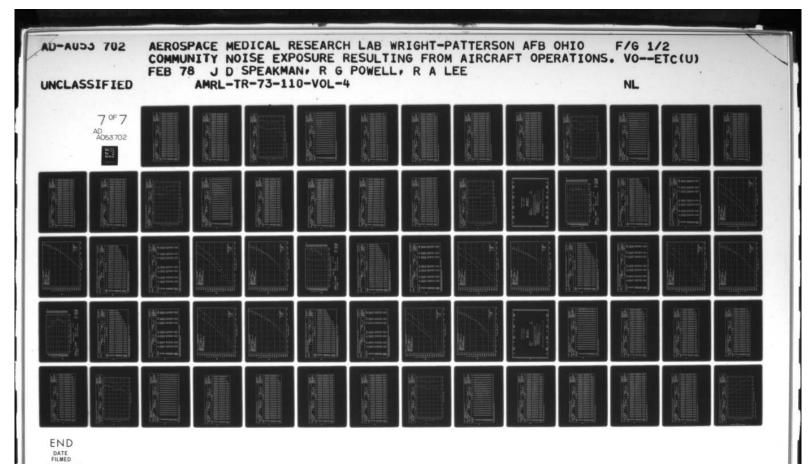
	DISTANCE = 250 FEET	FET				74-083-0
NOISE SOURCE T-434 ENG. JT GROUND	E/SUBJECT: AIRCRAFT 80-9A RUNUP	OPER	ATION: 10LE, 34% RPM SINGLE ENGINE		METEOROLOGY: \$9 F TEMP = 59 F BAR PRESS =29,92 IN HG REL HUMID = 70 %	ARCHART CODE 083 ARCHART CODE 02013 PROFILE VERSION A D8 APR 76 PAGE J1
		P=PNLT	0.2	A=AL	T=ALT	
d					1	
10						
				•		
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6,	•••		••			•••
A 50	•••		•••	• • •		
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110	•••	10 - 12 ·	•		. A T.	
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160	•••		•		. A	•••
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180		•				•
		•	•		•	• •

TABLE: 1	NORMALIZED 1/3 OCTAVE DISTANCE =	SOUND BAND 250	L	SSURE	E LEVE	EL (08	2									DENTIFO OMEGA	FICATION 8.2 74-083-0	TON:	
NOISE SOUR T-43A ENG. JT& GROUND R	SOURCE/SUBJECT SA AIRCRAFT JIGD-9A JND RUNUP	Ēt		90 91 81 81	RATION NGINE INGLE	RUNUR	9 6 %	g.		# E E E E E E E E E E E E E E E E E E E	TEOROLOGY TEMP BAR PRESS REL HUMID	0671 ESS =	29 . 59 . 70 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 .	T H X	¥	AIRCRAFT OPERATION PROFILE V 18 APR 76	w	CODE CODE RSION	083 02019 A
BAND CENTER FREQ (HZ)	ER 0	21	20	30	10	5.0	0.9	A O Z	SLE 80	CDEGR.	EES)	110	120	130	1 0 4 1	150	160	>170	>180
	73	7.5	25	92	92	11	62	62	82	83	85	85	89	76		101	76	48	7.4
63	7.8	11	18	78	7.8	62	80	81	83	94	87	88	92	16	0	103	16	**	74
90	62	90	18	62	62	81	9.4	84	84	85	89	90	93	66	0	104	93	83	73
100	82	82	80	82	81	61	9 4	82	28	88	91	93	96	102	0	108	95	85	75
125	20 d	28	N U	5 6	9 4	6 1	2 4	20 0	92	80 0	96	93	0 0	100	9	108	96	98	9,0
200	87	8 0	0 0	8 62	162	81	95	82	83	8 0	88	2 00	6 6	95	100	104	93	0 60	730
250	85	85	86	84	7.8	62	80	80	90	63	85	88	95	46	9	101	91	81	71
315	83	9.4	69	83	7.8	11	16	78	80	83	94	87	91	16	95	96	89	29	69
904	83	40	94	83	62	92	92	78	82	84	9.4	88	9.6	95	91	93	87	11	19
200	83	83	83	81	62	11	22	23	83	86	98	68	90	95	91	95	84	74	49
630	82	85	83	9 0	80	18	11	80	84	86	98	69	68	91	06	90	84	7.4	49
800	82	83	48	80	81	78	11	80	83	85	9 6	88	89	89	6 9	88	81	7.1	61
1000	85	98	92	82	82	62	23	80	82	85	96	87	88	88	88	98	7.8	68	58
1250	10	96	85	83	83	81	81	81	92	9,6	98	87	98	98	86	84	92	99	96
1600	βo	87	85	84	46	82	83	83	82	85	98	87	86	98	85	82	75	65	52
2002	85	96	82	83	83	81	81	81	40	85	87	88	86	85	84	81	42	49	24
2500	69	68	69	88	47	85	85	48	98	98	88	88	85	83	81	29	73	63	53
3150	98	99 1	100	66	26	93	95	93	95	91	93	93	90	87	85	83	77	29	57
4000	90	06	68	98	98	83	85	48	87	88	95	95	88	83	81	79	73	63	53
5000	66	90	68	87	96	63	84	82	85	96	91	95	68	83	80	22 .	7.1	61	51
0300	95	93	95	91	89	98	29	40	40	85	88	69	87	82	29	92	7.0	9	20
8000	87	87	86	83	83	8.0	81	62	82	83	88	88	85	62	92	12	99	28	48
10000	48	85	90	84	85	62	80	11	92	78	83	83	81	15	72	20	63	53	43
OVERALL	102	103 1	103	102	100	16	66	98	98	100	102	103	105	108	113	114	104	46	8

NOISE SOURCE/SUBJECT: T-43A AIRCRAFT ENG. JT8D-9A GROUND RUNUP DISTANCE (FEET) 0 10	BJECT 1		ANGLE A	AND DISTANCE	TANCE	FROM SC	SOURCE) TEST	1 74-0	74-083-001	
	A A A	- t-	33333	OPERA S	RATION: ENGINE SINGLE	RUNUP, ENGINE	80%	E d d	2222	METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	OLOGY:	= 59 S = 29.92 D = 70 3.0 08	L H X	9	PAG PAG	ATI ILE PR	CODE	0 83 0 201 A
	10	20	30	0,	50	09	7.0	ANGL		0EGREES)	110	120	130	140	150	160	>170	180
119.6	120.6	120.7	1	0	114.6		115.0	N		118.0	118.8	117.6	116.5	118.0		110.1	100.0	1.68
250 117.3 1	118.3	118.4	117.4	115.6	112.3	114.1	112.8	112.9	113.6	115.7	116.5	115.3	114.3	115.9	116.5	108.0	97.8	87.5
112.5	113.5	113.6	112.6		107.4	- ~	107.9	0 -		110.9	1111.7	110.6	109.7	1111.6	• ~	103.6	93.4	82.
149.9	110.9		-	~	104.8	و ا	105.4			108.3	109.2	108.1	107.2	109.2	0	101.2	6.06	80.
107.1		108.2			102.1		102.7	6	103.5	105.6	106.5	105.4	104.7	106.8	+	98.7	88.3	77.
104.2	105.5	105.3	•	10	89.5	•	89.6	0	-	102.7	103.6	102.6	102.0	104.2	•	96.0	85.6	74.
101.1	1132.1	1.12.2	-	4.00	95.0	97.8	46.7	96.9	97.6	9.66	100.6	9.66	1.00	101.4	102.0	93.2	82.5	71.
1250 97.7	98.7	98.8		96.0	95.6	4.46	93.3	93.6	94.3	96.2	97.2	96.3	95.9	98.4	99.0	90.0	79.3	68.
	6.46		94.1	92.2	88.9	2.06	89.6	89.9	90.06	92.5	93.6	92.7	92.5	95.0	95.7	86.6	75.7	65.0
	6.06	91.0		88.2	84.9	86.0	85.6	85.9	86.7	88.5	89.6	88.8	89.2	91.3	92.0	83.0	72.4	61.
25.00 85.3	86.3	86.5		83.6	80.3	82.0	81.1	81.5	82.3	84.0	85.2	84.5	85.5	87.1	87.8	78.9	68.4	57.
	81.2	81.3		78.4	75.5	76.8	76.0	76.5	77.3	79.0	80.2	80.0	81.3	82.0	85.8	74.4	63.8	52.
	75.3	75.5		72.6	4.69	6.07	70.2	70.8	71.8	73.4	74.9	75.3	76.7	77.1	77.8	69.4	58.4	40.
	69.8	6.89		999	65.8	2.49	63.7	9.40	4.99	68.0	69.8	70.3	71.8	72.2	72.8	9.49	53.0	*04
6300 61.3	6119	01.7		58.2	56.5	57.0	51.5	59.1	61.1	65.5	64.5	65.0	2.99	67.0	67.7		47.1	32.3
	56.1	55.8		955	20.4	9.09	51.6	54.3	56.4	57.7		8.09	62.7	63.5	0.49	55.0	45.3	25.
	50.1	50.1	147	45.9	43.5	43.0	45.3	49.1	51.4	52.5	55.5	56.3	58.3	59.1	60.1		36.9	18.2
12500 43.4	43.2	43.7	40	38.5	36.0	35.9	38.6	42.6	45.5	46.8	49.8	51.2	53.6	9.49	55.8	45.3	30.8	7.0
	30.3	37.0		33.8	27.9	27.0	30.2	35.3	38.8	40.4	43.9	45.5	48.5	49.4	6.05	39.6	22.0	
	24.1		54	20.8	15.1	14.2	20.5	27.3	31.1	32.4	36.8	38.9	42.2	43.6	45.5	33.4	10.1	
	15.6		12	10.7	5.4	1.3	10.8	16.5	20.5	22.4	27.5	31.1	34.8	37.6	40.0	24.5		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

ENGINE, 80% KPH) TEMP = 59 F) ATCCRAFT CODE 0201	ABLE	AS A	IONE-CORRECTED, AS A FUNCTION OF		ANGLE AND	z .!	DISTANCE F	2 2	SOURCE								OME OME	DENTIFICATION OMEGA 8.2 TEST 74-083-0 RIN 02	2 83-001	
Continue Continue	C	JT8D-	UBJECT AIRCRAF 9A UP	_E		4	ATIONS ENGINE SINGLE	RUNUP	80%	T d			· WHI	=29.	FHX	9	AIR OPE PRO PAG	CRAFT RATION FILE V APR 76	CODE	083 02019 A
122.2 122.4 124.5 123.5 121.2 118.9 115.5 119.6 118.2 117.1 117.2 118.0 119.9 110.2 119.9 1119.2 119.9 1111.4 1011.3 115.9 119.9 118.9 115.7 112.2 112.1 118.9 115.5 117.2 117.1 117.6 115.7 117.1 117.6 110.3 115.9 116.2 117.1 117.6 110.3 115.9 116.8 116.2 113.4 115.0 115.9 116.8 116.9 113.8 116.9 115.8 116.9 113.8 112.4 115.0 115.0 115.9 110.9 110.8 110.4 115.0 115.9 110.9 110.8 110.4 117.1 10.0 115.7 110.9 110.	DISTANCE		10	20	30	}	5.0	0.0		ANGL	E (0E	100		120	130	14.0	1 10		!	180
119.9 121.7 122.2 121.2 118.9 115.2 117.3 115.9 114.3 114.9 115.7 117.6 116.5 115.7 117.1 117.8 119.3 19.2 88.1 118.8 118.8 116.5 114.0 114.9 113.5 112.4 112.6 113.3 114.2 113.4 115.0 115.0 114.9 113.5 112.4 112.0 1114.0 110.3 112.4 112.0 114.0 110.3 112.0 114.0 110.3 112.0 114.0 110.3 112.0 114.0 110.3 112.0 114.0 110.3 112.0 114.0 110.3 112.0 114.0 110.3 112.0 114.0 110.3 112.0 114.0 110.3 112.0 114.0 110.3 112.0 114.0 110.3 112.0 114.0 110.3 112.0 114.0 110.3 112.0 114.0 110.3 112.0 114.0 110.3 112.0 114.0 110.3 112.0 114.0 110.3 112.0 114.0 110.3 112.0 114.0 110.0 10.0 10.0 10.0 10.0 10.0	200	122.2	124.	124.5		121	117.5		6	+		118.0	119.9	œ	117.9	0	a	111.6	101.3	0.10
117.5 119.3 119.8 116.5 116.5 116.6 113.5 112.4 1112.4 112.6 113.3 115.3 114.2 113.4 115.0 115.7 107.2 97.0 86.115.1 110.8 117.4 116.4 116.5 116.4 116.2 113.4 111.1 110.1 110.1 110.1 110.1 110.2 110.2 110.2 110.2 110.2 113.4 111.4 110.2 103.4 110.6 110.4 110.2 113.6 111.4 111.1 110.1 110.2 110.2 110.2 110.2 110.2 110.2 114.9 110.2 113.6 111.4 111.1 110.1 110.2 110	250	119.9	121.7	122.2		118.	115.2	. ~	115.9	1 70		115.7	117.6	10	115.7		00	109.3	200	83.8
115.1 110.8 117.4 116.4 114.0 110.3 112.4 111.1 110.0 110.1 110.9 112.8 111.1 112.7 113.5 105.0 94.7 84.1 112.0 111.2 111.4 111.4 112.0 113.4 113.1 112.0 92.7 113.9 110.4 113.1 112.0 92.7 113.9 110.4 113.1 112.0 92.7 104.3 113.1 112.0 112.0 112.0 112.0 112.0 112.0 112.0 112.0 112.0 113.1 102.0 102.7 104.7 103.8 104.7 104.7 103.8 105.6 106.1 107.9 108.7 108.7 108.7 108.7 108.7 108.1 107.9 108.7	315	117.5	119.3	119.8		116.	112.8	•		112.4	112.	113.3	115.3	N	113.4	0	~	107.2	97.0	86.6
112.5 114.2 114.4 113.6 111.4 107.7 109.6 108.5 107.4 107.6 108.3 110.2 109.3 108.6 110.4 111.1 102.6 92.3 81.1 111.5 112.0 1111.0 108.7 109.8 107.4 107.6 108.5 107.5 106.6 106.1 107.9 108.7 101.0 6 99.7 78.1 109.8 110.1 108.1 107.9 108.7 109.0 89.7 78.1 109.8 110.1 108.1 107.9 108.7 109.0 89.7 78.1 106.6 103.5 107.5 106.1 107.9 108.7 109.0 89.7 78.1 106.8 103.1 107.9 108.1 107.1 106.1 107.9 108.1 107.9 108.2 107.2 102.9 107.9 107.9 107.3 1	00+	115.1		117.4		114.	110.3		-	110.0	110.	110.9	112.8	8	111.1	~	10	105.0	1.46	84.2
103.7 111.5 112.0 111.0 108.7 105.3 107.1 105.8 104.7 104.9 105.6 106.1 107.9 108.7 100.0 108.7 100.0 108.7 100.0 108.7 100.1 107.9 108.7 100.1 107.9 108.7 100.1 107.9 108.7 100.1 107.9 108.7 106.1 107.9 108.7 106.1 107.9 108.7 106.1 107.9 108.7 106.1 107.9 108.7 106.1 107.9 108.7 106.1 107.9 108.7 106.1 107.9 108.7 106.1 107.9 108.7 106.1 107.9 108.7 106.1 107.9 108.7 106.1 107.3 94.9 775.1 108.2 100.2 101.6 101.8 101.6 101.8 101.5 102.6 103.3 94.5 86.9 75.9 101.2 101.2 102.6 103.3 94.9 97.8 95.2 97.8 95.2 97.8 97.8 95.2 97.8 97.8 95.2 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8	200	112.5		114.8		111.	107.7	2	10	107.4	107.	138.3	110.2	M	108.6	+	-	102.6	92.3	81.6
106.6 108.5 109.1 104.1 105.8 102.1 104.2 102.9 101.0 91.0 102.0 102.7 104.7 103.8 103.4 105.4 106.1 97.3 86.9 76.1 106.6 103.8 103.4 105.4 106.1 105.0 102.6 103.3 102.6 103.3 101.0 99.6 99.0 101.0 99.6 96.2 96.2 97.5 99.5 100.3 91.4 80.6 69. 96.5 98.3 97.5 97.5 99.5 100.3 91.4 80.6 69. 96.5 98.3 97.6 93.9 93.9 93.9 93.9 93.9 93.9 93.9 93	530	109.7		112.0		108.	105.0	_	8	104.7	104.	105.6	107.5	9	106.1	0	~	100.0	1.69	78.9
103.7 105.4 106.0 105.0 105.0 102.6 99.0 1011.0 99.6 96.7 96.9 99.6 1011.6 100.8 100.5 102.6 103.3 94.5 83.9 77.5 100.2 102.6 101.6 99.2 95.6 97.6 96.6 96.2 98.3 97.5 97.5 99.5 100.3 91.4 80.6 69.9 96.5 96.2 97.0 88.0 77.1 66.9 92.5 94.4 97.6 97.8 96.2 97.0 98.0 77.1 66.9 92.9 93.9 94.9 97.9 93.9 95.9 100.3 91.4 80.6 69.9 92.4 94.6 97.8 94.5 97.5 97.3 96.2 97.0 88.0 77.1 66.9 92.4 94.2 94.2 94.2 93.7 84.3 88.2 84.2 84.3 88.5 84.0 86.2 96.6 90.6 90.6 92.9 93.9 94.9 94.0 90.6 90.6 90.6 90.8 94.3 84.3 75.2 84.3 76.7 79.0 84.2 84.2 82.7 83.2 84.3 75.4 72.7 72.7 72.2 72.8 73.4 75.3 76.3 77.8 78.1 78.8 70.5 59.5 47.6 69.4 75.8 77.8 78.1 78.8 70.5 59.5 47.6 69.4 77.8 78.1 78.8 70.5 59.5 47.6 69.4 77.8 78.1 78.8 70.5 59.5 47.6 69.4 77.8 78.1 78.8 70.5 59.5 47.6 69.4 77.8 78.1 78.8 70.5 59.5 47.6 69.4 77.8 78.1 78.8 70.5 59.5 77.7 72.7 72.7 72.7 72.7 72.7 72.7 72	900	106.8	103.	109.1		105.	105.1	O.	0	101.8	102.	195.7	104.7		m	+	-	97.3	86.9	76.0
100.2 102.0 102.6 101.6 993.2 95.6 97.6 96.4 95.4 95.6 96.2 98.3 97.5 97.5 97.5 99.5 100.3 91.4 80.6 69.9 95.5 98.3 97.5 97.0 88.0 77.1 66.9 96.5 98.3 97.5 97.0 88.0 77.1 66.9 92.7 91.4 97.8 95.5 94.6 93.9 97.8 95.5 97.0 88.0 77.1 66.9 92.4 94.2 94.4 93.7 91.4 47.8 89.7 87.7 48.0 96.2 97.0 90.6 92.5 93.3 84.3 73.8 62.8 87.9 95.6 97.0 90.6 92.5 93.3 84.3 77.1 66.9 92.4 94.5 94.6 93.9 96.2 97.0 90.6 92.5 93.3 84.3 77.1 66.9 92.4 94.6 93.9 97.6 97.0 90.6 92.5 93.9 96.2 97.0 88.0 77.1 66.9 92.4 94.6 93.9 97.8 93.3 84.3 77.1 78.1 78.3 78.7 78.1 78.3 78.6 78.2 84.2 84.0 88.7 72.2 72.8 73.4 75.8 76.3 77.8 78.1 78.8 77.8 78.1 78.8 77.8 78.1 78.8 77.8 78.1 78.8 77.8 78.1 78.8 77.8 78.1 78.8 77.8 78.1 78.8 77.8 78.1 78.8 77.8 78.8	1336	103.7		106.0		102	99.0		6	98.7	98	9.66		6	106.5	9	103.3	94.5	8.3.9	73.0
96.5 98.3 96.9 97.8 95.5 91.9 93.9 92.7 91.7 92.0 92.5 94.6 93.9 93.9 96.2 97.0 88.0 77.1 66. 92.4 94.2 94.8 93.7 91.4 47.8 49.8 88.7 47.7 88.0 88.0 90.6 90.6 90.6 90.6 90.5 93.3 84.3 73.8 62. 87.9 69.6 90.0 90.6 92.5 93.3 84.3 73.8 62. 87.9 69.6 90.0 90.6 90.5 90.5 90.0 90.6 90.5 90.0 90.6 90.5 90.0 90.6 90.5 90.0 90.6 90.5 90.0 90.6 90.5 90.0 90.6 90.5 90.0 90.6 90.5 90.0 90.6 90.0 90.6 90.5 90.0 90.6 90.0 90.6 90.0 90.6 90.0 90.6 90.0 90.6 90.0 90.6 90.0 90.6 90.0 90.6 90.0 90.6 90.0 90.6 90.0 90.6 90.0 90.6 90.0 90.6 90.0 90.6 90.0 90.6 90.0 90.6 90.0 90.0	1250	100.2		102.6	_	99.	95.6		9	95.4	95.	96.2		97.5	97.3	2	100.3	91.4	80.6	69.7
92.4 94.2 94.4 93.7 91.4 d7.8 99.8 88.7 d7.7 d8.0 88.5 90.6 90.0 90.6 92.5 93.3 84.3 73.8 62.8 d7.9 b8.2 89.2 89.2 89.2 89.2 89.2 89.2 89.2 8	1600	96.5		98.9		95.	91.9	93.9	92.7	91.7	92.	92.5		93.9	93.9	2	97.0	88.0	77.1	4.99
87.9 b9.6 90.2 89.2 86.9 83.3 85.2 84.2 83.3 83.6 84.0 86.2 85.6 86.9 88.3 89.1 80.3 69.7 58. 82.7 84.5 85.1 84.0 81.7 78.1 80.u 79.1 78.3 78.7 79.0 81.3 81.2 82.7 83.2 84.1 75.8 65.1 53. 82.7 84.5 85.1 84.0 81.7 78.1 80.u 79.1 72.2 72.8 73.4 73.4 72.7 82.0 72.8 73.4 76.5 72.9 73.6 65.2 83.8 47. 69.4 70.8 71.2 69.9 67.9 64.6 65.7 67.3 68.0 70.5 71.0 72.6 72.6 77.9 77.6 67.2 67.8 65.5 67.2 67.8 67.2 67.8 67.2 67.8 67.2 67.8 67.2 67.8 67.2 67.8 67.2 67.8 67.2 67.8 67.2 67.8 67.2 67.8 67.2 67.8 67.2 67.8 67.2 67.8 67.8 67.8 67.8 67.8 67.8 67.8 67.8	2400	95.4		94.9		91.	81.8	89.8	88.7	87.7	98.	88.5		90.0	90.6	2	93.3	84.3	73.8	65.9
82.7 84.5 85.1 84.0 81.7 78.1 80.u 79.1 78.3 78.7 79.0 81.3 81.2 82.7 83.2 84.1 75.8 65.1 53. 75.4 75.4 75.5 77.8 77.8 77.8 65.1 53.0 75.4 75.5 77.8 77.8 77.8 77.8 77.8 77.8 77.8	2500	87.9		90.5		86.	83.3	85.2	84.2	85.3	83.	84.0		85.6	86.9	m	89.1	80.3	69.7	58.6
76.4 78.0 78.5 77.3 75.2 71.7 73.4 72.7 72.2 72.8 73.4 75.8 76.3 77.8 78.1 78.8 70.5 59.5 47.6 69.4 70.8 71.2 69.9 67.9 64.6 06.1 65.0 65.7 67.3 68.0 70.5 71.0 72.6 72.9 73.6 65.2 53.8 41.6 65.2 53.8 41.6 62.3 63.2 63.2 61.7 59.9 57.7 58.2 58.7 59.8 61.7 62.5 64.9 65.5 67.2 67.5 68.2 59.6 47.6 32.5 55.9 55.9 50.8 56.5 54.5 56.5 56.5 56.5 56.5 56.5 56.5	3150	82.7		85.1		81.	78.1	80.0	79.1	78.3	78.	19.0		81.2	82.7	2	84.1	75.8	65.1	53.6
69.4 70.8 71.2 69.9 67.9 64.6 06.1 65.0 65.7 67.3 68.0 70.5 71.0 72.6 72.9 73.6 65.2 53.8 41. 62.3 63.3 63.2 61.7 59.9 57.7 58.2 58.7 59.8 61.7 62.5 64.9 65.5 67.2 67.5 68.2 59.6 47.6 32. 55.9 50.8 50.5 54.5 56.5 56.5 67.2 67.2 67.5 68.2 59.6 47.6 32. 55.9 50.8 50.5 54.5 57.2 67.2 67.5 68.2 59.6 47.6 32. 55.9 50.8 50.5 54.0 53.0 63.0 63.0 63.0 63.0 63.0 63.0 63.0 6	000+	10.4		78.5		75.	71.7	73.4	72.7	72.2	72.	73.4		76.3	77.8	-	78.8	70.5	59.5	47.3
62.3 63.2 61.7 59.9 57.7 58.2 58.7 59.8 61.7 62.5 64.9 65.5 67.2 67.5 68.2 59.6 47.6 32. 55.9 50.8 56.5 54.5 55.5 64.3 55.3 42.5 32. 55.9 50.8 56.5 54.5 56.5 54.5 53.2 51.0 51.4 52.2 54.7 56.7 57.7 60.1 61.0 63.0 63.5 64.3 55.3 42.5 26.5 26.4 55.5 56.3 56.3 56.3 56.3 56.3 56.3 56.3	2000	4.69		71.2	68.6	67.	9.49	06.1	65.0	65.7	67.	68.0		71.0	72.6	6	73.6	65.2	53.8	41.0
\$5.9 50.8 56.5 54.5 53.2 51.0 51.4 52.2 54.7 56.7 57.7 60.1 61.0 63.0 63.5 64.3 55.3 42.5 26.5 56.9 50.1 61.0 63.0 63.5 64.3 55.3 42.5 26.5 56.1 50.1 50.5 54.5 56.3 56.3 56.3 56.3 56.3 56.3 56.3 56	6300	62.3		63.2	61.7	28	27.1	58.5	58.7	59.8	61.	65.5		65.5	67.2	2	68.2	29.6	47.6	32.8
49.5 54.1 54.1 47.5 45.9 43.5 43.0 45.3 49.1 51.4 52.5 55.2 56.3 58.3 59.1 60.1 50.5 36.9 18. 43.4 43.2 43.7 40.9 33.5 36.0 35.9 38.6 42.6 45.5 46.8 49.8 51.2 53.6 54.6 55.8 45.3 30.8 7.3 36.6 36.3 37.0 33.8 30.8 27.9 27.0 30.2 35.3 36.8 40.4 43.9 45.5 46.5 46.5 40.9 59.6 22.0 28.2 28.1 28.4 24.9 20.8 15.1 14.2 20.5 27.3 31.1 32.4 36.8 38.9 42.2 43.6 45.5 33.4 10.1 15.0 15.5 16.5 12.1 10.7 2.4 1.3 10.8 16.5 20.5 22.4 27.5 31.1 34.8 37.6 40.0 24.5	8000	52.6		50.5	54.5	53.	51.0	51.4	55.5	24.7	56.	57.7		61.0	63.0	2	64.3	55.3	45.5	26.1
43.4 43.2 43.7 40.9 38.5 36.0 35.9 38.6 42.5 45.5 46.8 49.8 51.2 53.6 54.6 55.8 45.3 30.8 7.3 36.6 36.3 37.0 33.8 30.8 27.9 27.0 30.2 35.3 36.8 40.4 43.9 45.5 46.5 49.4 50.9 39.6 22.0 28.2 28.1 28.4 24.9 20.8 15.1 14.2 20.5 27.3 31.1 32.4 36.8 38.9 42.2 43.6 45.5 33.4 10.1 15.0 15.5 16.5 12.1 10.7 2.4 1.3 10.8 16.5 22.4 27.5 31.1 34.8 37.6 40.0 24.5	10000	49.5		50.1	+	45	43.2	43.0	45.3	49.1	51.4	52.5	55.5	56.3	58.3	59.1	60.1	50.5	36.9	
36.6 36.3 37.0 33.8 30.8 27.9 27.0 30.2 35.3 36.8 40.4 43.9 45.5 46.5 49.4 50.9 39.6 22.0 28.2 28.1 28.4 24.9 20.8 15.1 14.2 20.5 27.3 31.1 32.4 36.6 38.9 42.2 43.6 45.5 33.4 10.1 15.u 15.6 16.5 12.1 10.7 2.4 1.3 10.8 16.5 20.5 22.4 27.5 31.1 34.8 37.6 40.0 24.5	12530	43.4		43.7	40	38.	36.0	35.9	38.6	42.6	45.5	46.8	49.8	51.2	53.0	54.0	55.8	45.3	30.8	
28.2 28.1 28.4 24.9 20.8 15.1 14.2 20.5 27.3 31.1 32.4 36.6 38.9 42.2 43.6 45.5 33.4 10.15.0 15.0 16.5 12.1 10.7 2.4 1.3 10.8 16.5 20.5 22.4 27.5 31.1 34.8 37.6 40.0 24.5	16000	36.6		37.0	33	30.	27.9	27.0	30.2	35.3	38.8	40.4	43.9	45.5	48.5	49.4	50.9	39.6	22.0	
15.u 15.o 16.5 12.1 10.7 2.4 1.3 10.8 16.5 20.5 22.4 27.5 31.1 34.8 37.6 40.0 24.5	24000	28.5		28.3	54.9	20.	15.1	14.2	20.5	27.3	31.1	32.4	36° 8	38.9	42.2	43.6	45.5	33.4	10.1	
	25006	15.0		16.5	15.1	10.	5.4	1.3	10.8	16.5	20.5	22.4	27.5	31.1	34.8	37.6	0.04	54.5		
	SPL DATA	A WERE		EXTRAPOLATED	FOR	THIS ANGLE	NGLE.													



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TABLES	A-WEI	A-WEIGHTED OVERALL SOU AS A FUNCTION OF ANGLE	VERAL N OF		NO LEVEL AND DIST	ANCE	FROM SO	SOUTCE) IDENTI) OMEGA) TEST	- 12 -	FICATION: A 8.2 74-083-001	
NOISE SOURCE/SUBJECT & T-43A AIRCRAF ENG. JT8D-9A GROUND RUNUP	E SOURCE/SUB T-43A AI ENG. JT8D-9A GROUND RUNUP	UBJECT & AIRCRAFT 9A	- =		OPERATIONS ENGINE SINGLE		RUNUP, ENGINE	80%	A H	2000	METEOROLOGYS TEMP BAR PRES REL HUMI DELTA N =	PRESS HUMID	=29.	59 F 92 IN H	5	A PROFE	CRAFIC RATIC	CODE	0 20 19
DISTANCE	9	61	20	30	3	5.5	99	2	ANGLE		(DEGREES) 90 100	110	120	130	140	150	160	>170	>180
200	104.3	105.4	105.3	104.4	102.6		100.8	99.1			102.8	103.5			102.1	103.2		84.6	74.6
250	101.9	163.0	103.0	102.1	100.3	96.7	98.5	96.8	97.2	98.0	100.4	101.2	7.66		100.0	101.2	95.6	82.6	72.6
610	97.0			97.	95.6		93.6	92.0	45.4		96.6	96.4	05.0		95.8	93.1		78.3	68.3
200	94.4			94.	92.9		91.0	89.5	89.9		93.0	93.8	95.6		93.5	94.8		76.1	66.1
630	91.6			91.	90.1	86.5	88.3	8.99	87.3		90.3		90.1		91.2	95.4		73.8	63.8
8 10	8 9 9	89.9	6 6 8	89	87.3	83.7	85.4	84.1	84.5		87.5		91.6		88.7	6.68		71.4	61.4
0000	7 30	30	0 70	9											,				
1250	82.4		-	82.	81.0	77.5	79.1	78.0	78.6	79.8	31.5	32.7	82.2	82.7	83.4	84.4	76.2	66.2	56.2
1600	79.0			79.	77.5	74.1	75.6	74.6	75.5	76.8	78.4	79.7	79.3	80.0	80.5	81.4	73.3	63.3	53.3
2000	75.3	16.4	76.4	75.	73.8	70.5	71.8	71.1	72.1	73.6	75.1	76.5	76.4	77.2	77.5	78.3	70.4	60.4	50.4
2500	71.4		72.4	71.	2.69	66.7	1.10	67.3	68.7	70.3	711.7	73.3	73.3	74.1	74.2	14.9	67.1	57.1	47.1
3150	67.2			99	4.59	65.6	63.3	63.3	65.0	66.8	68.1	8 . 69	6.69	70.8	70.7	71.1	63.5	53.5	43.5
4000	65.8			61.	61.0	58.3	28.7	59.1	01.1	63.0	04.3	0 .99	2.99	67.1	8 . 99	67.0	28.5	49.5	39.5
2000	54.2	59.1		26	50.5	53.8	53.8	24.7	56.8	58.9	60.1	61.9	62.1	63.0	62.7	62.7	55.5	45.2	35.2
8000	48.9		43.5	6.94	46.7	44.3		42.4	7.76	20.0	51.3	53.3	53.7	54.8	54.6	54.7	47.2	37.2	27.2
10000	44.1			45.	41.8	39.4	39.0	40.7	43.5	45.8	46.8	48.9	40.4	20.1	90.6	51.0	43.4	33.4	23.4
12500	38.9			36.	30.4	34.1	33.6	35.6	38.7	6.04	41.8	44.1	44.8	46.3	40.4	47.1	39.3	29.3	19.3
16000	33.4			31.	30.7	58.5	28.0	30.1	33.4	35.6	36.5	38.9	39.8	41.5	42.1	43.1	35.0	25.0	15.0
20000	27.5	27.	28.5	25.8	54.5	55.5	22.1	24.3	27.7	59.9	30.7	33, 3	34.4	36.4	37.7	39.0	30.5	50.5	10.5
25000	21.3	21.3	21.9	19.	17.9	16.2	16.1	19.2	51.5	23.7	54.5	27.2	28.6	31.1	33.5	34.9	55.9	15.9	5.9
> SPL DA	DATA WERE EXTRAPOLATED FOR	EXTRA	POLATED	1	THIS AN	ANGLE.													

	!	CONTRACT	ONE-CORRECTED, A-MET	-	GHIED OV	DVEKALL	SOUND	LEVEL	(DBA)							LUEN	-	LIONE	
	AS A	AS A FUNCTION OF		ANGLE	AND DI	DISTANCE	FROM	SOURCE								TEST	TEST 74-063-001	63-001	
NOISE T	URCE/S A JT 80- ND RUN	UBJECT & AIRCRAFT 9A IUP	- F		OPER	OPERATION: ENGINE SINGLE	RUNUP, ENGINE	80%	E Q		METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	PRESS HUMIO	= 59 = 29.92 = 70	9 F 2 IN HG 0 % H	وي	PAGE PAGE	RAFT RATIO	CODE N CODE VERSION	0 83 0 2019
DISTANCE (FEET)	0	2	20	30	7	50	9	5	ANGLE	08	(DEGREES) 90 100	110	120	130	140	150	160	>170	7180
200	106.9	108.7	109.1	168.2		101.9		162.3	101.3	101.7	132.8	104.		102.6	103.3	5.401	96.0	86.0	76.
315	107.1	163.9	106.8	105.8	101.2	99.0	101.7	100.0	99.0	99.4	100.4	102.3	98.6	100.5	101.2	100.4	93.9	81.9	71.6
400	9.66	101.4		101		94.7		95.2	94.3	9.46	95.5	97.		96.1	97.0	98.3	1.69	79.7	69
200	97.6	99.86	99.3	98		92.1		95.6	91.7	92.2	93.0	96		93.9	2.46	0.96	87.5	77.5	67.
630	34.5	96.1	90.0	1.56		89.5		90.0	89.1	89.6	90.3	95.		91.6	95.4	93.6	85.1	75.1	65.
800	91.3	93.2	93.7	95.8		86.6		87.2	86.4	86.9	87.5	99.6	88.7	89.2	89.9	91.2	82.7	72.7	62.
1000	46.3	90.2	90.7	89.7				84.2		84.1	84.6	86.7	86.1	86.7	87.3	88.5		70.2	60
1250	85.0	96.90	87.4					81.1		81.2	81.5	83.8	83.4	84.1	84.6	85.7	77.5	67.5	57.
1500	81.6		83.9	85.8	80.8	77.1	78.8	77.8	77.3	78.1	78.4	80.7	80.5	81.4	81.7	82.7	74.7	2.49	24.7
2000	77.9		80.2					74.2		75.0	75.1	77.6	17.6	78.6	78.7	19.6	71.8	61.8	51.
2500	74.0		76.1					10.4		711.7	711.7	74.3	5.4.2	25.5	15.4	76.1	68.5	58.5	48.
3150	69.8	71.5	71.9					66.5		2.89	68.1	20.9	71.1	72.2	71.9	75.4	6.49	24.9	*
4000	6 ** 9	4.90	9000					9.19		64.1	64.3	6 • 99	67.1	68.2	67.8	66.0	9.09	20.6	40.
5000	59.8		61.2	54.9				50.9		29.7	60.1	65.5	62.8	63.8	63.4	63.4	56.1	46.1	36.
6300	54.5	55.7	55.6	53.1				51.2		55.0	9.50	6.25	58.2	59.1	58.8	58.7	51.3	41.3	31.
8000	4.64		50.3	47.6				46.1		500	51.3	53.5	53.9	55.1	24.8	25.0	47.5	37.5	27.
										9	9 9 9	6 77	4					***	2.0
1000	***		*	•						100	0 0		***	2000	0.00	21.0	* * * *	200	2
10000			23.0	0 .				22.0			0.1.	1000		200	*	1 .	2000	200	
10000	23.4	22.7	24.1	20.10	2000	23.00	22.	2001	27.4	20.00	2000	2 2 2	24.0	41.0	1.74	100	30.5	20.00	10.6
25000	21.3		21.9	6				18.2		23.7	24.5	27.2	28.6	31.1	33.5	34.9	25.9	15.9	2
													,						

	ST	O FEET) OMEGA 8.2) TEST 74-083-001	3-001
NOISE SOURC ENG. JT GROUND	E SOURCE/SUBJECT: T-43A AIRCRAFT ENG. J180-9A GROUND RUNUP		COPERATIONS ENGINE SINGLE	RUNUP, ENGINE	80% RPH		METEOROLOGY: BAR PRESS REL HUMID DELTA N = -3.	\$ = 59 F SS =29.92 IN HG ID = 70 % -3.0 DB	AINCRAFT CODE 06 OPERATION CODE 02 PROFILE VERSION D8 APR 76 PAGE J2	CODE 083
200			P=PNLT			A=AL		T=ALT	80	
ď						•		1	• 0.	
. 01									0	
									91	
3										
30					:	: .		A . T		•
0,			•		•	•	900	- A	ď	
A 50	••							d		
09 09				:		• :		. A . T		•
L 70										•
I 80	•••				••		•	A T.		•
96 N						. :		AT		•
0 E 100			•					• • ×		•••
S 110	•••					• •	••	. AT	••	
E 120				:		• :		AT		
S 130	•••				٠.		1000 4 0001	AT		•
143	••	٠.	••			٠.	A		• •	•
150				:		• :		AT		?:
160	•••		•			• •	. AT	• •	9 08-4 14-200	•
×170						• •	AT .	••		•
▶180					AT .	• : •				:::
	()								***************************************	

* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

17,	1/3 OCTAVE DISTANCE =	BAND 250	FEE	1												OMEGA TEST 74	8.2 4-083-00	001	
NOISE SOURCE/S T-43A AI ENG. JTBD-9A GROUND RUNUP	SOURCE/SUBJECT A AIRCRAFT JT6D-9A	Ē.		OPE S	RATION	RUNUP, ENGINE	, 85% E	E E		METE TZ BA RE DELT	ETEOROLOGY: TEMP BAR PRESS REL HUMID	6 Y 8 = 2 10 = -3.	9.92 0.70 0.08	FIX NIX H		ALRCRAFT OPERATION PROFILE VE 18 APR 76	FT CO ION CO E VERS 76	CODE DE	83 2018 A
BAND CENTER FREQ (HZ)	7	9	20	36	5.4	20	60	A D Z	GLE (ES)	110	120	130	140	150	160 >1	>170 >1	9
20	92	11	11	11	78	62	91	81	40	95	87	87	95		103	104	86	88	78
63	90	62		62	81	81	9.4	84	98	88	88	91		00	105	104	86	88	18
08	85	83		81	80	83	.0 1	98	28	89	69	46	16	03	107	106	86	88	18
125	6 2	8 9	300	9 0	8 9	t t 0 0	86	00	D 00	4 5	30 M	7 9	000	100	111	110	96	8 2 8 2	19
160	68	88	83	98	85	85	87	87	9.0	95	9.6	96		90	112		101	91	81
200	68	88	88	87	48	48	85	84	86	88	91	93		00	105	108	66	89	19
250	96	90	87	87	85	83	83	82	83	87	83	93	96		101	104	96	86	91
315	90	87	89	98	81	3	81	81	85	85	28	91	95		26	66	93	83	73
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	28	9 8	20	980	81	13	80	83	80 0	98	80 0	91	86		96	96	91	81	2
200	0 3	90	0 10	0 0	1 6		9 7	† 1 0	0 4	90 T	D 0	250	2 2		200	4 6	000	200	2 5
900	93	82		94	81	81	61	84	85	0 60	06	95	86		63	90	36	2 2	9
1000	83	82	34	85	83	81	81	85	85	87	90	91	93		91	88	82	72	62
1256	82	91	83	82	83	82	81	85	85	87	89	91	95		68	87	62	69	29
1600	48	40	85	85	9.4	4.8	83	98	85	88	9.0	36	95		68	87	7.8	68	28
2000	83	84	85	82	81	81	81	83	85	88	0.6	36	91		87	85	92	99	96
2500	85	98	94	83	83	82	82	9.4	85	88	9.0	16	68		85	82	73	63	53
3150	26	16	96	96	95	46	93	69	90	90	93	93	91		98	83	7.4	79	24
9004	86	96	87	85	* 8	83	84	85	96	68	35	93	90		84	90	7.1	61	51
2000	83	94	94	85	81	9.0	81	83	83	87	90	35	68		80	82	69	66	64
6300	96	68	96	90	96	6 5	40	83	83	84	87	89	87		7.8	25	29	25	47
9000	91	81		80	78	11	11	9.2	62	83	98	87	85		92	73	99	96	94
10000	90	90	91	19	78	92	11	15	14	18	82	82	81		72	20	49	24	t
OVERALL	101	101	101	100	66	86	98	98	130	102	104	106	108	113	118	117	108	86	88

300RECTOBLECT: (OPERATION:		AS A	A FUNCTION OF		ANGLE	AND DE	DISTANCE	FROM S	SOURCE) OMEG		74-083-001	
TSTANCE 11	OISE FE	URCE/S AT&D-	UBJECT AIRCRA 9A	-=		(CE	AT TONS ENGINE SINGLE	RUNUP, ENGINE	85%	¥ d	2000	TETEOR(TEN BAF BELTA	PRESS HUMIT	11110	FHX	ဖွ	A AIR	CRAFT RATION FILE VI	CODE CODE ERSION	083 02018 A
116.0 116.3 118.6 119.0 118.0	DISTANCE (FEET)		10	20	36	3	50	9	7.0	ANGL		100 100	110	120	130	140	150		>170	>180
116.0 116.3 116.8 115.7 114.1 113.0 112.9 111.8 112.0 114.1 116.7 118.1 117.6 118.0 120.4 119.2 110.6 113.7 111.7 110.6 110.6 110.6 110.7 111.8 115.8 115.8 115.8 118.3 117.1 1108.5 1113.7 111.6 110.1 111.9 110.9 113.4 112.9 113.4 112.9 113.4 112.9 113.4 112.9 113.4 113.9 119.3 119.1 114.9 119.2 110.6 110.6 110.7 110.8 110.	200	114.3		119.		116.4	115.3	~	114.1	•	116.4		120.	119.8	120.1	122.5	1	~	102.7	92.
113.7 114.0 114.4 113.4 111.6 110.6 110.6 110.9 4 110.3 111.8 114.4 115.8 115.3 115.8 110.3 117.1 1108.5 111.2 111.6 110.9 110.5 111.2 113.7 112.6 1104.0 110.0 11	250	116.0	116.3		115.	114.1	113.	•	11108		114.1		118.	117.6	118.0	120.4	N	9	100.6	90.
111.6 111.6 111.6 110.9 110.9 110.9 110.1 110.0 110.9 110.9 113.4 111.9 113.6 110.1 110.9 110.1	315	113.7	114.0	11/304	113.	1111.7	110	.0	109.4	m	111.8		115.	115.3	115.8	118.3	_	108.5	98.4	88.0
100.0 100.4 100.4 100.7 105.6 105.6 105.5 106.9 109.4 110.9 110.5 111.2 113.7 112.6 1104.0 1106.0 1106.2 106.7 100.4 110.9 110.5 111.2 110.5 110.1 110.5 110.6 110	400	1110			110.	109.3	108.2	_	107.0	107.9	109.4	111.9	113.	115.9	113.6	116.1	•	106.3	96.1	85.
100.0 1 103.4 102.6 101.1 130.0 100.0 99.0 101.4 103.9 105.4 105.1 106.6 107.5 98.9 103.1	200	108.7			108	106.7	105.6	0	104.5	105.3	106.9	109.4	110.	110.5	111.2		ω.	104.0	93.7	83.
100.0 100.3 100.7 99.7 98.0 96.9 96.9 96.8 96.3 100.9 102.4 105.1 106.0 107.5 98.9 16.6 90.9 97.4 96.4 94.7 93.6 93.5 92.6 93.5 95.1 97.6 99.2 99.0 100.2 102.3 105.9 104.7 96.1 93.0 93.3 93.7 92.7 91.0 99.9 89.9 99.9 91.5 91.5 94.0 95.6 95.6 95.6 96.9 99.0 101.7 93.1 93.0 93.3 93.7 92.7 91.0 89.9 89.9 89.9 91.5 91.5 94.0 95.6 95.6 95.6 95.6 95.9 99.0 101.7 93.1 93.0 89.0 93.3 93.7 92.7 91.0 89.9 89.9 89.9 89.9 91.5 91.5 94.0 95.6 95.6 95.6 95.9 94.8 86.4 84.5 84.7 87.0 85.9 85.9 85.7 84.7 87.0 85.9 85.9 85.7 87.7 83.3 85.7 88.7 87.6 84.3 87.6 84.3 87.6 84.3 87.6 88.1 89.5 91.7 90.6 82.4 73.7 73.6 77.4 76.3 77.4 76.3 77.5 77.5 77.5 77.5 77.5 77.5 77.5 77	929	100.0			105	70+01	106.3	n .	101.8	105.1		19001	108.2	107.9	108.7	•	-	101.5	91.2	80.
100.0 100.3 100.7 99.7 98.0 96.9 96.9 96.8 100.9 102.4 102.2 103.3 105.9 104.7 96.1 96.6 90.8 100.9 102.4 102.2 103.3 105.9 104.7 93.6 93.5 95.1 97.6 99.2 99.0 100.2 102.8 101.7 93.1 93.0 93.3 93.7 92.7 91.0 89.9 89.9 91.5 94.0 95.6 93.5 95.6 93.6 93.6 99.5 99.6 101.7 93.1 93.0 89.1 88.7 88.7 88.7 88.7 87.0 85.9 85.1 86.1 86.9 91.5 94.0 95.6 93.6 93.6 93.8 93.7 92.0 89.7 92.0 89.5 98.4 89.7 87.0 87.0 87.0 87.0 87.0 87.0 87.0 87	9	133.1		103.		101.1	100.0	-	93.0	99.8	101.4	103.9	105.4	105.1	106.1		10	98.9	88.5	11.
96.6 90.9 97.4 96.4 94.7 93.6 93.5 92.6 93.5 95.1 97.6 99.2 99.0 100.2 102.8 101.7 93.1 93.8 93.3 93.7 92.7 91.0 69.9 89.9 69.9 91.5 94.0 95.6 96.9 99.5 98.4 69.7 89.8 89.1 89.1 93.3 93.7 92.7 91.0 69.9 89.9 89.9 89.0 91.5 94.0 95.6 96.9 99.5 98.4 69.7 89.8 89.7 89.7 89.8 89.7 89.8 89.7 89.8 89.7 89.8 89.7 89.8 89.7 89.8 89.7 89.8 89.7 89.8 89.7 89.8 89.8	1000	100.0	-	-	-66	98.0	96	6.96	6.56	96.8	98.3	100.9	102.	102.2	103.3	105.9	104.7	96.1	85.7	74.
93.0 93.3 93.7 92.7 91.0 89.9 89.0 89.9 91.5 94.0 95.6 95.6 96.9 99.5 98.4 89.7 89.0 89.2 89.7 88.7 87.0 85.9 85.1 45.0 87.6 91.1 93.7 92.0 93.3 95.9 94.8 86.4 89.0 89.5 89.7 88.7 87.0 85.9 87.1 83.3 85.7 87.6 88.1 89.5 91.7 91.6 82.4 73.5 88.4 73.5 77.6 77.2 77.2 77.5 77.5 77.5 77.5 77.5 77.5	1250	9.96			96	2.46		93.5	95.6	93.5	95.1	97.6	99.	0.66	100.2	102.8	101.7	93.1	82.4	71.
89.0 89.2 89.7 88.7 87.0 85.9 85.3 85.1 56.0 87.6 90.1 91.7 92.0 93.3 95.9 94.8 86.4 84.5 84.5 82.5 81.4 81.4 81.4 81.7 83.3 85.7 87.6 88.1 89.5 91.7 90.6 82.4 79.4 84.3 77.4 76.3 76.3 77.9 76.4 78.9 11.2 83.2 83.2 83.2 83.9 85.4 87.1 85.9 78.2 73.5 67.2 67.4 68.0 67.2 65.2 64.1 64.1 66.1 66.5 09.0 77.4 73.6 77.6 73.5 81.6 81.4 81.6 81.4 73.5 67.2 67.2 67.2 67.2 67.2 67.1 67.2 67.2 67.2 67.2 67.2 67.2 67.2 67.2	1530	93.0			95.	91.0		89.9	89.0	89.9	91.5	0.46	95.	92.6	6.96	99.5	98.4	89.7	79.1	68.
84.5 84.7 85.2 84.3 82.5 81.4 81.4 81.4 81.7 83.3 85.7 87.6 88.1 89.5 91.7 90.6 82.4 79.4 79.3 77.4 76.3 75.9 76.4 76.9 81.2 83.2 83.9 85.4 87.1 85.9 78.2 73.4 73.7 77.4 76.3 76.3 76.9 81.2 83.2 83.9 85.4 87.1 85.9 78.2 73.5 73.5 73.6 73.6 73.6 73.6 74.6 73.6 74.6 75.9 76.7 75.5 81.6 81.4 73.5 75.5 81.6 81.6 81.4 73.5 75.5 81.6 81.6 81.4 73.5 75.5 81.6 81.6 81.4 73.5 75.5 81.6 81.6 81.4 73.5 75.5 81.6 81.6 81.4 75.5 81.6 81.6 81.4 75.5 81.6 81.6 81.6 81.6 81.6 81.6 81.6 81.6	2000	89.6			88	87.0		85.3	85.1	36.0	87.6	90.1	91.	92.0	93.3	6.56	8.46	86.4	15.9	65.
79.4 79.7 40.1 79.3 77.4 76.3 75.9 76.4 78.9 41.2 83.2 83.9 85.4 87.1 85.9 78.2 73.7 73.9 74.4 73.5 71.6 70.5 70.5 71.5 71.6 74.1 76.4 78.6 79.4 80.7 81.6 80.4 73.5 67.1 85.2 73.5 67.1 86.0 67.2 73.5 67.1 86.0 67.2 73.5 67.1 86.0 67.2 73.5 67.1 86.0 67.2 73.6 74.1 76.4 78.6 79.4 80.7 81.6 80.4 73.5 67.1 80.2 80.4 73.5 67.1 80.2 80.4 73.5 67.1 80.2 80.4 73.5 67.1 80.2 80.4 73.5 67.1 80.2 80.2 70.8 71.6 70.4 83.5 56.2 56.3 53.1 52.4 55.4 55.5 58.9 61.3 63.7 65.1 66.9 67.9 66.7 59.7 59.7 51.2 50.8 51.4 47.0 45.9 46.7 50.3 51.5 54.0 56.5 59.1 60.6 62.8 63.9 62.8 55.6 49.6 39.3 40.1 44.0 45.7 48.4 51.1 54.1 55.7 58.2 59.7 58.6 51.1 33.8 32.2 33.1 32.9 31.1 32.9 31.1 32.8 36.6 38.7 42.1 44.8 48.5 50.2 53.1 55.5 54.5 45.7 31.8 32.8 32.2 31.9 23.3 20.7 22.3 22.7 33.6 37.6 47.0 47.1 47.1 50.9 49.8 39.5 31.8 32.2 31.9 23.3 20.7 22.3 22.7 33.6 37.6 47.0 47.1 47.1 50.9 49.8 39.5 31.8 32.2 31.9 23.3 20.7 22.3 22.7 33.6 37.6 47.0 47.1 47.1 50.9 49.8 39.5 31.8 32.2 31.9 23.3 20.7 22.3 22.7 33.6 37.6 47.0 47.1 47.1 47.1 47.1 57.1 47.1 57.1 47.1 57.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 4	2500	84.5			84.	82.5		81.4	80.8	81.7	83.3	85.7	87.	88.1	89.5	91.7	9006	82.4	71.9	61.0
73.7 73.9 74.4 73.6 71.6 70.6 70.5 71.2 71.0 74.1 76.4 78.6 79.4 80.7 81.6 80.4 73.5 67.2 67.2 65.2 64.1 64.1 66.5 09.0 71.4 73.6 74.6 75.9 76.7 75.5 68.6 60.7 60.7 61.0 58.8 58.1 60.5 61.1 03.6 06.1 68.3 69.5 70.8 71.6 77.4 63.5 56.2 55.3 55.3 55.3 55.4 56.5 56.1 68.3 69.5 70.8 71.6 70.4 63.5 56.2 55.3 55.4 56.5 56.4 56.5 59.1 60.6 62.8 63.9 62.7 59.7 51.2 51.4 44.8 45.8 45.6 40.6 39.3 40.1 44.0 45.7 48.4 51.1 54.1 55.7 58.2 59.7 58.6 51.1 33.8 32.2 33.8 32.2 31.3 2.9 31.1 32.8 35.6 38.7 42.1 44.8 48.5 50.2 53.1 55.5 54.5 45.7 31.7 31.6 37.6 42.0 44.0 47.4 50.9 49.8 39.5 31.1 32.9 31.1 32.8 35.6 38.7 42.1 44.8 48.5 50.2 53.1 55.5 54.5 45.7 31.7 31.7 31.6 37.6 42.0 44.0 47.4 50.9 49.8 39.5 31.1 32.9 31.1 32	3150	19.4			79.	77.4		76.3	15.9	76. 3	78.9	81.2	83.	83.9	95.4	87.1	85.9	78.2	67.6	56.
67.2 67.4 68.0 67.2 65.2 64.1 64.1 66.5 69.0 71.4 73.6 74.6 75.3 76.7 75.5 68.6 60.7 60.7 61.1 60.5 61.1 60.5 60.1 60.3 69.5 70.8 71.6 70.4 63.5 56.2 55.3 55.3 53.1 52.4 55.4 56.5 58.9 61.3 63.7 65.1 66.9 67.9 66.7 59.7 51.2 51.4 51.4 67.0 45.9 46.7 50.3 51.5 54.0 56.5 59.1 60.6 62.8 63.9 62.8 55.6 45.4 44.8 45.8 45.6 40.6 39.3 40.1 44.0 45.7 48.4 51.1 54.1 55.7 58.2 59.7 58.6 51.1 33.2 33.2 33.2 33.2 33.2 33.2 33.2 3	4000	73.7			73.	71.6		20.5	71.2	71.6	74.1	76.4	78.	79.4	80.7	81.6	86.4	73.5	65.8	51.
56.2 55.8 56.3 53.1 52.4 52.4 55.5 58.9 61.1 03.6 56.1 68.3 69.5 70.8 71.6 70.4 63.5 56.2 55.8 56.3 53.1 52.4 52.4 55.5 58.9 61.3 63.7 65.1 66.9 67.9 66.7 59.7 51.2 51.8 51.6 51.8 61.8 61.8 61.8 61.8 61.8 61.8 61.8 6	2000	67.2			67.	65.2		64.1	66.1	66.5	0.60	71.4	73.	74.6	75.3	76.7	75.5	9.89	57.6	45.
56.2 55.8 56.3 55.1 52.4 52.4 55.4 56.5 58.9 61.3 63.7 65.1 66.9 67.9 66.7 59.7 51.2 51.6 51.6 51.4 47.0 45.9 46.7 50.3 51.5 54.0 56.5 59.1 60.6 62.8 63.9 62.8 55.6 45.4 44.8 45.8 45.6 40.6 39.3 40.1 44.0 45.7 48.4 51.1 54.1 55.7 58.2 59.7 58.6 51.1 33.2 33.6 33.1 32.9 31.1 32.8 36.6 38.7 42.1 44.8 48.5 51.2 53.1 55.5 54.5 45.7 51.1 31.8 32.8 32.2 31.9 23.3 20.7 22.3 23.7 33.6 37.6 42.0 44.0 47.4 51.9 49.8 39.5 31.8 32.2 31.9 23.3 20.7 22.3 23.7 33.6 37.6 42.0 44.0 47.4 51.9 49.8 39.5 31.8 32.2 31.9 23.3 20.7 22.3 23.7 34.6 37.6 42.0 44.0 47.4 51.9 49.8 39.5 31.8 31.8 31.8 31.8 31.8 31.8 31.8 31.8	6310	60.7			61.	58.8		58.1	60.5	61.1	63.6	06.1	68.3	69.5	70.8	71.6	70.4	63.5	52.1	39.
51.2 51.4 51.6 51.4 47.0 45.9 46.7 50.3 51.5 54.0 56.5 59.1 60.6 62.8 63.9 62.8 55.6 45.6 44.6 45.8 45.6 40.6 39.3 40.1 44.0 45.7 48.4 51.1 54.1 55.7 58.2 59.7 58.6 51.1 39.2 33.5 39.6 39.1 32.9 31.1 32.8 35.6 38.7 42.1 44.8 48.5 50.2 53.1 55.5 54.5 45.7 51.1 31.8 31.8 32.2 31.9 23.3 20.7 22.3 24.7 30.7 34.6 37.6 42.0 44.0 47.4 50.9 49.8 39.5 31.8 51.8 51.8 51.8 51.8 51.8 51.8 51.8 5	8000				56.	53.1		52.4	55.4	50.5	9.80	61.3	63.7	65.1	6.99	6.79	2.99	29.1	6.7.9	34.
45.4 44.8 45.8 45.6 40.6 39.3 40.1 44.0 45.7 48.4 51.1 54.1 55.7 58.2 59.7 58.6 51.1 33.2 33.2 33.5 39.6 33.1 32.9 31.1 32.8 35.6 38.7 42.1 44.8 48.5 50.2 53.1 55.5 54.5 45.7 31.8 31.8 31.8 32.2 31.9 23.3 20.7 22.3 23.7 30.7 34.6 37.6 42.0 44.0 47.4 50.9 49.8 39.5 31.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	19900	51.2			51.	47.0	45.9	100+	50.3	51.5	54.0	56.5	59.1	60.6	62.8	63.9	62.8	55.6	43.2	27.
33.2 38.5 39.6 39.1 32.9 31.1 32.8 36.6 38.7 42.1 44.8 48.5 50.2 53.1 55.5 54.5 45.7 31.8 31.8 31.8 32.2 31.9 23.3 20.7 22.3 23.7 33.7 34.6 37.6 42.0 44.0 47.4 50.9 49.8 39.5 32.5 31.8 31.8 31.8 31.8 31.8 31.8 31.8 31.8	12500	45.4			45	40.6	39.3	40.1	44.0	45.7	48.4	51.1	54.1	55.7	58.2	59.7	58.6	51.1	37.7	19.
31.6 31.8 32.2 31.9 23.3 20.7 22.3 23.7 30.7 34.6 37.6 42.0 44.0 47.4 50.9 49.8 39.5	16,00	39.5			39.	32.9	31.1	32.8	36.6	38.7	42.1	44.8	48.5	50.5	53.1	55.5	54.5	45.7	31.5	8.6
21.1 21.0 22.1 27.4 27.4 20.0 21.0 21.0 20.0 20.0 21.7 20.0 10.0 21.0 21.0 21.0 21.0 21.0 21.0	23030	31.8			31.	23.3	20.7	22.3	28.7	30.7	34.6	37.6	42.0	44.0	4.7.4	50.9	8.64	39.5	22.8	
2007 COAR COLD TOO TOO TOO TOO TOO TOO TOO TOO TOO TO	25300	21.1			23.	9.0	10.4	8.1	17.3	20.4	24.9	28.6	34.3	36.4	40.5	45.6	44.5	32.3	7.3	

. SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

	AS A	AS A FUNCTION OF	90 NO	ANGLE	AND DISTANCE	STANCE	FROM S	SOURCE) TES	OMEGA 8.2 TEST 74-083-001	83-001	
פבים	JT&D-	SOURCE/SUBJECT: 43A AIRCRAFT 46. JT8D-9A COUND RUNUP	- =		OPER	OPERATIONS ENGINE SIGSLE	RUNUP, ENGINE	85%	T dd		METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	PRESS HUMIO	= 59 S = 29.92 0 = 70 3.0 08	L H X	9	-) AIR	RUN 03 AIRCRAFT OPERATION PROFILE VI 08 APR 76	CODE	0 83 0 2018
DISTANCE (FEET)	•	10	20	36	3	20	09	0,	ANGLE 86		(DEGREES) 90 100	113	120	130	140	150	160	>170	180
250	122.1	122.2	123.1	122.		119.0	118.7	115.8				120.9	119.	120.1	123.1	m a	10000	102.7	92.4
	115.6	115.1	116.0	1115.		111.9		1111.2				113.9	1115.	113.6	118.9	16		98.4	85.7
55.0	112.5	112.6	113.4		110.6	106.6		163.6	104.3	106.9	109.4	111.4	110.5	111.2	1114.3		104.0	93.7	83.2
	103.8			103.8	-	-	37.1	94.4	98.4	98.3	1100.9		102.2	103.3	105.5	104.7	96.1	85.7	74.7
2000	96.8	96.9	93.7				93.4	90.8	91.6	91.5	94.0		95.6	96.9	100.1	98.4	89.7	75.9	68.5
2566	86.3						84.9	82.5		83.3	85.7		88.1	89.6	92.3	9006	82.4	71.9	61.0
3150	78.2	63.3	84.2				73.4	77.7	78.4	76.9	81.2		83.9	85.4	87.7	85.9	78.2	67.6	56.5
5000	69.5						999	67.2		69.0	71.4		7.06	75.9	77.0	75.5	68.6	57.6	45.5
6300	62.2 56.9	56.5	62.8	57.2	53.8	53.1	59.5	55.7	56.9	58.9	66.1	63.8	69.5	70.8	71.8	70.4	63.5	52.1	34.0
10000	51.2	53.8	51.6	51.			46.7	50.3		54.0	56.5		60.6	62.8	63.9	62.8	55.6	43.2	27.4
12500	45.4			45.			40.1	44.0		48.4	51.1	54.1	55.7	58.5	2.65		51.1	37.7	19.5
16000	39.2	38.5	39.6	39.1	32.9	31.1	32.8	36.6	38.7	34.6	37.6	48.5	50.2	53.1	55.5	54.5	39.5	31.5	8.6
250.00	2.										,							,	

. SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

	AS A	AS A FUNCTION OF ANGLE	ON OF	141	AND DIS	DISTANCE	FROM SC	SOURCE) ONEGA	SA 8.2	74-063-001	
NOISE SOURCE/SUBJECT! 1-434 AIRGRAFT ENG. JT80-94 GROUND RUNUP	E SOURCE/SUB T-43A AI ENG. JT&D-9A GROUND RUNUP	UBJECT AIRCRAI 9A UP		33333	OPER	OPERATION: ENSINE SINGLE	RUNUP,	85%	E da		METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	PRESS HUMID =	62.	59 F 92 IN H 70 %	Ş	PROPERTY DATE	F3	C00E C00E RS10	063 02018 N A
DISTANCE (FEET)	9	3	20	30	0,	25	09	2.0	ANGL		(DEGREES) 90 100	110	120	130	140	150	160	>170	1180
200	102.4	102.7	103.2		160.7		99.0	98.6	99.3	101.3	103.9		105.1		106.7	106.1	98.3	88.3	78.
250	100.1	-	-	100	98.4		8.96	4.96	97.1	99.1	~		102.9		104.6	104.0	96.2	86.2	76.
315	97.7			97.6	96.0	2.46	4.46	94.1	94.8	96.8	4.66	100.9	100.7	101.0	102.6	102.0	34.5	84.2	74.2
3 0	95.5			95	93.6		92.0	91.8	45.6	94.5			98.5		100.4	99.8	92.1	82.1	12.
200	92.7	93.1	93.6	95	91.0		86.5	4.6	90.0	92.1			96.2		98.2	97.6	89.9	79.9	69
800	87.3			67.	85.6		84.1	84.3	64.9	87.0			91.4	91.9	93.3	92.7	85.2	75.2	65
1000	84.3	940	85.2	84.	82.6	81.4	81.1	81.6	82.2	84.3	86.8	88.4	88.8	4.68	2.06	90.0	82.7	72.7	62.7
1250	81.2			81.	19.5	78.3	78.0	78.8	19.4	81.6		85.7	86.2	86.8	87.9	87.2	80.0	20.02	-09
1000	77.9			78.	76.2	75.0	14.7	15.9	76.5	78.7		85.9	83.5	84.0	85.0	84.2	77.3	67.3	57.
2000	74.4			74.	72.6	71.5	71.3	72.9	73.5	75.7	78.0	19.9	9.09	81.2	81.9	81.3	74.4	4.49	54.
2500	70.6				68.8	67.8	9.19	2.69	70.3	72.5	14.8	76.8	17.6	78.1	78.6	77.5	71.1	61.1	51.
3150	9.99			67.	6.49	63.9	63.7	66.3	600	69.1	71.4	73.4	74.3	74.7	6.42	73.7	9.29	57.6	47.
4000	62.4	62.2		63.	60.7	2.65	9.69	9.29	63.2	65.4	67.8	69.7	7.07	71.0	71.0	69.5	63.6	53.6	43.
2000	57.9			29.	56.3	55.3	29.5	58.5	59.1	61.3	63.7	9.59	9.99	8.99	66.8	65.1	59.3	49.3	39.
6300	53.3		54.		51.7	2005	50.0	54.1	24.7	6.95	59.5	61.2	62.2	65.5	62.4	9.09	54.9	6.44	34.
9300	49.1	1.94	6.64		47.2	46.2	7.94	8 . 6 4	50.5	52.7	25.0	57.1	58.5	58.5	28.7	57.1	51.4	41.4	31.
0101												, ,		1		:			
	•				23.2	***	6.14	100	•	7.04	2000	0.76	2000	2000	200	2000	0	27.0	
00000	100			9 1	2 4 5	3000	2000	100	1 . 1 .	120		100	6.40		0.00	1,50	1000	2000	
20000	29.7		30.1	000	25.8	24.7	25.5	28.7	30.0	22.2	34.3	26.9	38.2	40.4	45.4	41.6	34.6	24.6	14.6
250.10	2.5.8	23.4		2.0	4 4	4		200	9 6 6	100	1 0		30.00	3.00	202	11.			0
					7			-	0		-								

> SPL DATA MERE EXTRAPOLATED FOR THIS ANGLE.

Track			AS A	AS A FUNCTION OF ANGLE	0 NO	ANGLE	AND	DISTANCE	CE F 304	SOURCE								ONE TES	OMEGA 8.2 TEST 74-083-0	A 6.2 74-083-001	
u 10 20 30 40 50 70 80 10 110 126 130 140 150 160 70 80 100 <t< th=""><th>NOI</th><th>SE SOL</th><th>URCE/S A JT&0-</th><th>NEJECT AIRCRA 94</th><th>-5</th><th></th><th>8</th><th>ENGI</th><th>The state of the s</th><th></th><th></th><th></th><th>METEOR TEI BAI BEITA</th><th>AP PRESS</th><th>129</th><th>T H X</th><th>ي</th><th>PROPE</th><th>CRAFT RATION FILE W APR 76</th><th>CODE</th><th>083 02018 A</th></t<>	NOI	SE SOL	URCE/S A JT&0-	NEJECT AIRCRA 94	-5		8	ENGI	The state of the s				METEOR TEI BAI BEITA	AP PRESS	129	T H X	ي	PROPE	CRAFT RATION FILE W APR 76	CODE	083 02018 A
105.2 106.3 107.3 106.4 104.6 103.1 102.6 100.4 110.9 101.3 105.9 105.9 105.3 107.3 106.1 106.1 108.1 108.1 108.3 100.3 98.1 98.7 99.1 101.7 103	OIS	TANCE		1.0	20				٠	7.0	ANG	= 6	GREES) 100	110	120	130	140	150		>170	>180
101.6 101.7 102.5 101.7 99.9 98.4 97.9 95.9 96.4 97.0 99.1 101.7 101.0 103.2 102.0 94.2 84.2 99.1 101.6 103.7 102.5 103.7 102.5 103.7 99.9 98.4 97.9 95.9 96.4 97.0 99.1 94.5 97.0 99.1 101.0 103.2 102.0 94.2 97.6 99.8 97.6 99.8 97.1 99.2 100.2 100.2 99.3 97.5 99.9 97.1 99.2 100.7 101.0 103.2 102.0 99.8 92.1 97.6 99.8 97.6 99.9 97.0 99.1 99.2 100.7 101.0 103.2 102.0 99.2 97.6 99.9 97.0 97.0 99.1 97.0 99.1 97.6 97.0 99.1 97.6 97.0 99.1 97.6 97.0 97.0 97.0 97.0 97.0 97.0 97.0 97.0		200	106.2					-			-	101	103.	105.9		105.3	107.3	106.	98.3	88.3	78.3
99.1 99.2 100.2 99.3 97.5 96.0 95.5 94.1 94.5 97.0 99.1 98.5 94.8 101.0 99.8 92.1 82.1 99.6 90.7 94.1 94.5 97.0 99.1 91.7 92.1 94.6 96.7 96.5 96.6 99.8 97.6 89.9 77.6 99.1 91.1 91.2 92.1 91.4 94.2 97.2 94.1 97.6 99.1 91.7 92.1 91.7 92.1 91.7 92.1 91.7 92.1 91.7 92.2 96.6 99.8 97.6 97.6 97.6 97.6 97.6 97.6 97.6 97.6		315	101.6					-					101	101.4		101.0	103.2		3000	84.2	74.2
96.6 99.7 97.6 96.8 94.9 93.5 93.0 91.1 91.7 92.1 94.6 96.7 96.2 96.6 98.8 97.6 89.9 79.9 93.9 94.1 92.3 91.9 91.1 92.3 91.0 91.1 92.3 91.0 91.1 92.3 91.6 91.6 91.6 91.6 91.8 94.3 92.1 94.2 92.2 92.1 94.2 92.1 92.2 92.1 92.2 92.1 92.2 92.1 92.2 92.1 92.2 92.2		004	99.1										97.	99.1		6.96	101.0	99.	92.1	82.1	72.1
93.9 94.0 94.9 94.1 92.3 90.9 90.4 88.6 89.2 89.6 92.1 94.2 93.8 94.3 96.4 95.2 87.6 77.6 88.1 94.0 94.0 94.9 94.1 92.3 90.9 90.4 88.6 89.2 89.6 92.1 94.6 91.4 91.9 93.9 92.7 85.2 87.6 75.2 88.1 86.8 89.4 91.3 96.4 91.3 96.9 92.7 72.7 88.1 85.1 86.1 86.8 89.4 91.3 96.0 82.7 72.7 88.1 85.1 86.1 86.2 86.8 89.4 91.3 90.0 82.7 72.7 88.1 85.1 85.1 85.2 75.2 75.2 75.2 75.7 78.1 80.4 89.4 83.5 84.0 85.6 89.6 89.7 77.3 77.5 77.5 77.5 77.5 77.5 77.5 77		200	96.6										94.	2.96		96.6	98.8	97.	89.9	19.9	6.69
91.1 91.2 92.1 91.4 89.5 88.1 87.6 86.0 86.6 87.0 89.5 91.6 91.4 91.9 93.9 92.7 65.2 75.2 88.1 84.2 85.2 86.2 86.8 89.0 88.8 89.4 91.3 90.0 82.7 72.7 85.0 85.1 86.1 85.1 84.7 83.3 83.9 86.2 86.2 86.2 86.8 88.5 87.2 80.0 70.0 70.2 70.2 70.2 70.2 70.2 70.2 7		630	93.9										95.	34.5		94.3	96.4	95.	87.6	17.6	67.6
88.1 88.2 88.5 86.6 85.1 84.7 83.3 83.9 84.8 89.0 88.8 89.4 91.3 90.0 82.7 72.7 72.7 85.0 85.0 85.6 85.4 83.4 85.2 86.8 85.2 86.8 85.2 86.8 87.2 87.2 87.3 87.8 81.0 81.6 83.9 86.2 86.8 86.5 87.2 87.3 87.3 87.3 87.3 87.3 87.3 87.3 87.3		810	91.1								96.		89	91.6		91.9	93.9	92.	85.2	75.5	65.5
85.0 85.4 85.4 82.0 81.6 81.5 81.1 81.6 83.9 86.2 86.2 86.8 88.5 87.2 77.3 77.6 78.2 78.7 81.0 43.4 83.5 84.0 85.6 84.2 77.3 77.3 77.6 86.6 84.1 78.2 77.3 77.6 87.5 77.5 77.7 87.6 87.3 87.6 87.5 87.5 77.7 87.6 87.5 87.6 87.3 87.6 87.7 87.6 87.7 87.6 87.7 87.6 87.7 87.6 87.7 87.6 <td< td=""><td>1</td><td>000</td><td>88.1</td><td></td><td></td><td>88.</td><td>2</td><td></td><td></td><td></td><td></td><td>84.3</td><td></td><td>89.0</td><td>88.8</td><td>4.68</td><td>91.3</td><td>90.0</td><td>82.7</td><td>72.7</td><td>62.7</td></td<>	1	000	88.1			88.	2					84.3		89.0	88.8	4.68	91.3	90.0	82.7	72.7	62.7
81.7 81.7 82.7 82.2 83.1 78.5 77.6 78.2 78.7 81.0 43.4 83.5 84.0 85.6 84.2 77.3 67.3 77.5 78.7 81.0 43.4 83.5 84.0 85.6 84.0 77.3 67.3 77.4 64.4 78.2 76.2 79.2 78.8 76.5 71.1 71.4 75.2 77.5 77.5 77.6 77.5 77.6 77.1 77.4 64.4 77.5 77.5 77.6 77.5 77.5 77.5 77.1 77.4 64.4 77.5 77.5 77.5 77.5 77.5 77.5 77.5 7	-	250	85.0			85.	+				81.			86.2	86.2	86.8	88.5	87.2	80.0	20.0	60.0
78.2 73.2 73.2 78.8 75.5 75.2 74.8 74.6 75.2 75.7 78.0 60.4 80.6 81.2 82.6 81.0 74.4 64.4 74.5 71.1 71.4 72.0 72.0 72.8 77.3 77.5 77.5 75.6 81.0 77.5 77.1 61.1 74.5 77.5 77.1 61.1 74.5 77.5 77.1 61.1 74.5 77.5 77.1 61.1 74.5 77.5 77.1 61.1 77.5 77.5 77.1 61.1 77.5 77.5 77.1 61.1 77.5 77.5 77.1 61.1 77.5 77.5 77.1 61.1 77.5 77.5 77.1 61.1 77.5 77.5 77.1 61.1 77.5 77.5 77.1 61.1 77.5 77.5 77.1 61.1 61.2 55.2 65.4 65.4 67.8 70.2 71.7 71.0 71.0 71.5 69.5 63.6 53.6 60.2 55.6 61.1 61.2 55.7 56.1 57.7 71.0 71.0 71.5 69.5 63.6 53.6 60.2 55.8 61.1 61.2 59.8 61.1 61.3 63.7 66.0 66.0 66.0 67.1 65.1 59.3 49.3 54.8 54.8 55.7 56.1 57.2 58.2 62.6 66.0 67.1 65.1 59.3 49.3 54.9 59.7 59.7 59.7 59.7 59.7 59.7 59.8 70.7 59.8 70.8 70.8 70.8 70.8 70.8 70.8 70.8 70	7	600	81.7			82.	2				78.			43.4	83.5	84.0	92.6	84.2	77.3	67.3	57.3
74.5 74.3 75.4 75.2 72.6 71.5 71.1 71.4 72.0 72.5 74.8 77.5 77.5 77.5 77.5 71.1 61.1 71.5 71.5 71.5 71.5 71.5 71.5 71.5 7	~	000	78.2			78.	8				75.		78.	80.4	80.6	81.2	85.6	81.0	14.4	64.4	24.4
70.5 70.2 71.4 71.4 08.8 67.6 67.2 08.0 68.6 69.1 71.4 73.9 74.3 74.7 75.6 73.7 67.6 57.6 65.5 65.5 65.2 66.4 66.0 63.9 62.7 62.4 64.0 64.5 65.4 67.8 70.2 71.7 71.0 71.5 69.5 63.6 53.6 65.5 65.2 66.4 66.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0	2	200	74.5			75.	2				72.		74.	77.3	17.6	78.1	19.5	17.5	71.1	61.1	51.1
65.5 65.2 66.4 66.6 b3.9 62.7 62.4 64.0 64.5 65.4 67.8 70.2 70.7 71.0 71.5 69.5 63.6 53.6 53.6 60.2 60.2 66.4 66.6 b1.3 61.3 63.7 66.0 66.6 66.8 67.1 65.1 59.3 49.3 54.8 54.3 55.7 56.1 57.2 52.2 52.0 52.0 54.8 59.2 61.4 62.2 62.5 62.5 60.6 61.6 54.9 44.9 49.4 50.7 51.1 48.0 45.9 50.1 50.8 52.7 55.0 57.2 58.2 58.5 58.9 57.1 51.4 41.4 41.4 41.5 45.1 51.4 41.4 52.7 55.0 57.2 58.2 58.5 58.9 57.1 51.4 41.4 41.4 41.5 45.1 46.0 48.2 50.5 52.6 53.7 54.9 57.1 51.4 41.4 41.4 41.5 41.1 41.1 41.1 41	~	150	70.5			71.	*				68.		71.	73.9	74.3	74.7	15.6	73.7	9.29	91.6	47.6
60.2 59.8 61.1 61.5 58.7 57.6 57.3 59.5 60.1 61.3 63.7 66.0 66.6 66.8 67.1 65.1 59.3 49.3 54.8 54.8 54.8 55.3 56.0 56.0 66.8 67.1 65.1 59.3 49.3 54.8 54.8 55.3 56.9 59.2 61.4 62.2 62.5 62.6 60.6 54.9 44.9 44.9 49.4 50.7 51.1 40.0 45.9 45.9 50.1 50.8 52.7 55.0 57.2 58.2 58.5 58.6 58.9 57.1 51.4 41.4 41.5 45.1 46.0 48.2 50.5 52.6 53.7 54.5 54.9 53.5 47.6 37.6 40.1 39.7 40.7 40.9 37.3 36.2 36.5 40.1 41.1 41.1 43.2 45.5 48.9 50.0 50.8 69.6 43.5 33.5 53.1 34.7 35.2 34.8 35.9 33.2 34.8 35.9 38.2 40.4 42.4 41.6 42.4 41.6 52.8 52.3 23.8 26.0 28.3 36.9 38.2 40.4 42.4 41.6 29.8 19.5 18.6 19.5 22.3 23.8 26.0 28.0 30.8 32.4 35.4 35.3 37.5 29.8 19.8 19.8 19.8 19.8 19.8 19.8 19.8 1	4	000	65.5			99	٥				94.		67.	70.5	70.7	71.0	71.5	69.5	63.6	53.6	43.6
54.8 54.3 55.7 56.1 53.3 52.2 52.0 54.8 55.3 56.9 59.2 61.4 62.2 62.5 62.6 60.6 54.9 44.9 44.9 49.9 49.4 50.7 51.1 48.0 45.9 46.9 51.1 50.8 52.7 55.0 57.2 58.2 58.6 58.9 57.1 51.4 41.4 44.8 44.8 44.3 45.5 45.8 42.5 41.4 41.5 45.1 46.0 48.2 50.5 52.6 53.7 54.5 54.9 53.5 47.6 37.6 40.1 39.7 40.7 40.9 37.3 36.2 36.5 40.1 41.1 43.2 45.5 43.8 45.3 54.9 53.5 47.5 33.5 35.1 34.7 35.6 37.8 30.7 31.2 34.6 35.8 37.9 40.1 42.5 43.8 45.3 46.7 45.7 39.2 29.2 29.7 29.3 30.1 29.9 25.8 24.7 25.5 28.7 30.0 32.2 34.3 36.9 33.2 40.4 42.4 41.6 34.6 29.6 23.8 23.4 24.1 23.8 19.5 18.6 19.5 22.3 23.8 26.0 28.0 30.8 32.4 35.4 38.3 37.5 29.8 19.8	5	930	60.2			61.	2				69.			66.0	9.99		67.1	65.1	59.3	49.3	39.3
49.9 49.4 50.7 51.1 48.0 46.9 46.9 50.1 50.8 52.7 55.0 57.2 58.5 58.9 57.1 51.4 41.4 41.4 44.8 44.8 44.3 45.5 45.8 42.5 41.4 41.5 45.1 46.1 48.2 50.5 52.6 53.7 54.5 54.9 53.5 47.6 37.6 40.1 39.7 40.7 40.9 37.3 36.2 36.2 36.2 40.1 41.1 43.2 45.5 47.6 53.7 54.5 54.9 50.0 50.8 49.6 43.5 33.5 35.1 34.7 35.5 35.6 31.8 30.7 31.2 34.6 35.8 37.9 40.1 42.5 43.8 45.7 46.7 45.7 39.2 29.2 29.2 29.7 29.7 29.3 30.1 29.9 25.8 24.7 25.5 28.7 30.0 32.2 34.3 36.9 38.2 40.4 42.4 41.6 34.6 24.6 23.8 23.4 24.1 23.8 19.5 18.6 19.5 22.3 23.8 26.0 28.0 30.8 32.4 35.4 35.4 38.3 37.5 29.8 19.8	9	300	54.8			56.	7				55.			61.4	62.2		62.6	9.09	54.9	44.9	34.9
44.8 44.3 45.5 45.8 42.5 41.4 41.5 45.1 46.0 48.2 50.5 52.6 53.7 54.5 54.9 53.5 47.6 37.6 40.1 39.7 40.7 40.9 37.3 36.2 36.5 40.1 41.1 43.2 45.5 45.6 48.9 50.0 50.8 49.6 43.5 33.5 35.1 34.7 35.6 35.6 31.8 30.7 31.2 34.6 35.8 37.9 40.1 42.5 43.8 45.3 46.7 45.7 39.2 29.2 29.7 29.7 29.3 30.1 29.9 25.8 24.7 25.5 28.7 30.0 32.2 34.3 36.9 38.2 40.4 42.4 41.6 34.6 24.6 23.8 23.6 23.4 24.1 23.8 19.5 18.6 19.5 22.3 23.8 26.0 28.0 30.8 32.4 35.4 38.3 37.5 29.8 19.8	70	000	49.9			51.	-				50.			51.5	58.5		58.9	57.1	51.4	41.4	31.4
40.1 39.7 40.7 40.9 37.3 36.2 36.5 40.1 41.1 43.2 45.5 4.68 48.9 50.0 50.8 49.6 43.5 33.5 35.5 35.1 34.7 35.6 35.6 31.8 30.7 31.2 34.6 35.8 37.9 40.1 42.5 43.8 45.3 46.7 45.7 39.2 29.2 29.2 29.7 29.7 29.3 30.1 29.9 25.8 24.7 25.5 28.7 30.0 32.2 34.3 36.9 38.2 40.4 42.4 41.6 34.6 24.6 23.8 23.6 23.4 24.1 23.8 19.5 18.5 19.5 22.3 23.8 26.0 28.0 30.8 32.4 35.4 38.3 37.5 29.8 19.8	1.0	000	44.8								46.		50.5	52.6	53.7	54.5	54.9	53.	47.6	37.6	27.6
35.1 34.7 35.6 35.6 31.8 30.7 31.2 34.6 35.8 37.9 40.1 42.5 43.8 45.3 46.7 45.7 39.2 29.2 29.2 29.7 29.7 29.3 30.1 29.9 25.8 24.7 25.5 28.7 30.0 32.2 34.3 36.9 38.2 40.4 42.4 41.6 34.6 24.6 23.6 23.6 23.4 24.1 23.8 19.5 18.5 19.5 22.3 23.8 26.0 28.0 30.8 32.4 35.4 38.3 37.5 29.8 19.8	12	500	40.1				•				41.		45.5	6.8.	48.9	50.0	50.8	64	43.5	33.5	23.5
29.7 29.3 30.1 29.9 25.8 24.7 25.5 28.7 30.0 32.2 34.3 36.9 38.2 40.4 42.4 41.6 34.6 24.6 23.6 23.6 23.6 23.4 24.1 23.8 19.5 18.5 19.5 22.3 23.8 26.0 28.0 30.8 32.4 35.4 38.3 37.5 29.8 19.8	16	900	35.1								35.	37.	*0	42.5	43.8	45.3	46.7	45.	39.5	29.5	19.5
23.8 23.4 24.1 23.8 19.5 18.5 19.5 22.3 23.8 26.0 28.0 30.8 32.4 35.4 38.3 37.5 29.8 19.8	20	000	29.7				•				30.	32.	34.	36.9	38.2	40.4	45.4	41.	34.6	24.6	14.6
	52	900	23.8				_				23.	26.	28.	30.8	32.4		38.3	37.	29.8	19.8	9.6

		250 FEET									DOMEGA	OMEGA 8.2 TEST 74-083-001
NOISE SOU T+436 ENG. GROUI	SE SOURCE/SUBJECT! T-43A AIRCRAFT ENG. JT80-9A GROUND RUNUP		(OPERATION: (ENGINE (SINGLE	RUNUP, ENGINE	85% KPM		METEOROLOGY: TEMP BAR PRES REL HUMI DELTA N =	PRESS HUMID	= 59 F =29.92 IN = 70 %	9	A IRC	ATCRAFT CODE DOPERATION CODE DOPERATION CODE DOPENSION DO APR 76 PAGE J3
			P=PNLT			A=AL			1	T=ALT		
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> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

DISTANCE	= 250	D FEET	EET												DENTIF OMEGA TEST 7	1CATION 8.2 4-083-0	2 2 83-001	
SOURCE/SUBJECT 8 A AIRCRAFT JI & D-9A ND RUNUP	<u>.</u> .		S	RATION INGINE R	NGIN	90%	A T		METE BA 8A 3E 0ELT	OROLOGY MP R PRESS L HUMID	11 11 11 11	59.92 70 70	A IN HG		AIRCRAFT OPERATION PROFILE V 18 APR 76 PAGE C4	_ w	CODE	083 02017 A
3	101	20	28	9	50	9	7 0 A	GLE 80	0EG3E	ES)	110	120	130	140	150	160 >	>170	>180
62	11	29	78	83	81	82	82	98	86	89	91	96	101	105	104	66	8	79
81	82	82	82	82	83	201	90	28	88	96	93	96	105	107	106	100	96	80
83	85	83	84	82	48	87	88	68	06	95	95	0	107	109	107	86	88	78
20	87	83	96	85	96	68	68	93	35	96	98	0	110	113	110	100	90	80
89	88	29	98	85	28	88	68	95	16	95	66	0	110	115	110	66	68	29
26	91	160	500	78	60 d	60 d	00 0	93	95	76	100	103	109	1117	113	66	60	79
83	6.0	91	8 9	9 6	8 2	0 0	86	87	91	2 0	96	2 0	104	108	109	98	9 60	7 8
68	06	96	88	40	83	84	84	86	89	95	95	9	103	103	105	95	85	25
90	91	91	90	94	83	85	85	87	89	35	95	95	101	103	102	93	83	73
88	88	69	89	82	4 9	96	90	88	90	93	96	96	101	102	100	91	81	7.1
87	47	69	98	85	4 8	80	87	83	91	34	96	96	101	100	98	88	78	68
85	96	47	96	85	9.4	80	80	89	90	16	96	96	100	26	95	85	15	69
85	85	87	20	98	92	87	87	68	90	16	96	96	66	46	93	82	72	62
9 4	83	85	98	80	96	87	88	69	90	93	96	95	26	98	91	4	69	29
85	80	96	96	87	98	88	68	68	91	46	95	95	96	16	68	7.8	68	58
40	83	40	84	85	* 8	86	98	89	91	76	62	46	95	76	88	11	29	25
98	84	83	83	92	83	85	96	89	91	93	93	93	93	95	85	14	99	24
95	46	35	95	91	95	35	88	91	93	95	96	93	93	91	84	73	63	53
91	90	88	88	88	68	68	87	90	93	95	96	93	92	90	83	72	62	55
40	83	82	82	83	82	48	85	44	91	96	46	90	88	87	80	69	59	64
87	98	85	84	85	83	48	83	85	88	91	91	87	87	84	11	29	25	14
83	82	91	62	80	80	80	62	82	85	88	88	85	94	82	1.4	99	26	46
62	18	16	15	92	4.2	92	22	92	8.0	84	84	80	42	18	20	9	24	*
1.02				6														9

. SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

	4		0.8	9	20		.5	.5	9.	9.	*	5		2	.2	.8	4	21.1	-	-	
	083 02017	×180	93.			81.							5.5								
3-00	CODE	170	03.2	98.9	90.00	91.9	89.2	86.4	83.2	80.2	77.0	73.0	68.6	58.5	53.1	49.1	44.2	39.0	32.7	24.0	11.0
DENTIFICATIONS OMEGA 8.2 TEST 74-083-001		160 >	21		n 4	. ~	9	8	8	8	9	9	2.67	2	+	9	9.9	52.1	80.0	6.0	3.5
DENTIF	AIRCRAFT OPERATION PROFILE V 18 APR 76 PAGE 04			9 109.		9 102.	m													6	5
20-0		150	124.	119.	116	112	110.						6.0				67.	63.	59.	53.	48.
	9	140	127.7	123.5	118.0	116.4	113.8						92.4				8.69	65.6	61.3	57.0	52.3
	59 F 92 IN 70 %	130	124.4	120.1	115.6	113.2	110.6	137.9	104.9	101.8	98.6	95.1	90.00	81.7	76.6	72.7	68.6	64.2	59.3	53.8	47.5
	=29. = 0 08	120	122.3	117.7	112.4	110.3	107.6	104.8	101.8	98.6	95.1	91.2	87.0	77.5	72.5	68.2	63.8	58.7	53.4	47.3	40.4
	PRESS HUMID = -3.	110	123.3	10	+ 7			105.5	102.3	98.8	6.46	91.0	80.0	77.4	72.3	67.8	63.1	58.1	52.8	46.6	39.3
	METEOROLOGY & TEMP BAR PRES REL HUMI DELTA N =	(DEGREES) 90 100	122.0	117.4	112.0	109.8	107.0										60.5	55.3	49.5	45.9	35.2
	2222		119.5	115.0	116.0	107.4	104.6						22.3				57.6	52.2	46.0	39.5	30.7
	A T	ANGL 80	m -		~ ~	2 21	+	99.3	96.1	35.5	88.6	84.5	2000	70.4	65.0	4.00	55.5	56.1	43.6	36.0	26.3
SOURCE	206	2	114.9					6.96	93.6	90.1	80.4	85.6	74.5	68.8	63.3	58.5	53.2	47.5	40.8	32.6	22.4
FROM S	RUNUP, ENGINE	9	NO				-	98.1	94.8	91.2	87.3	83.0	7.87	58.5	63.0	51.5	52.4	46.6	40.5	32.0	21.4
DISTANCE	RATIONS ENGINE SINGLE	50	115.5		• •	103.3	160.4	4.16	0.46	90.4	90.5	82.1	71.8	9.99	61.0	9999	50.4	4.4.4	38.3	29.4	17.9
PNUB) AND DIS	OPERA	3	115.3					97.1	93.8	30.5	96.3	81.9	12.2	67.1	61.6	56.5	51.5	45.4	38.5	30.5	19.1
LE C	33333	36	116.3	~	n a		m	98.3	95.1	91.5	87.6	63.3	7 2 3	68.3	63.1	58.7	54.0	48.7	42.8	35.7	27.2
.	-	20	116.3		106.4		101.3	98.3	95.1	91.5	87.0	83.3	74.7	68.7	63.5	29.1	24.4	.64	43.4	30.7	28.4
PERCEIVEU NOISE L AS A FUNCTION OF	UBJECT I AIRCRAFT 9A IUP	3	117.3			105.1		99.5	6.56	95.3	66.3	63.6	73.6	62.9	65.5	58.1	53.5	48.2	42.2	35.5	26.5
PERCEI AS A F	E SOURCE/SUB T-434 AI ENG. JT80-94 GROUND RUNUP	9	118.3					1001	96.8	93.2	89.5	84.8	2 2.0	68.2	62.8	50.4	53.7	4004	42.2	35.6	26.4
:	NOISE SOURCE/SUBJECT: T-43A AIRCRAF ENG. JT8D-9A GROUND RUNUP	DISTANCE (FECT)	250			930		1000	1250	1600	2000	2500	3120	2000	6340	8000	10100	12500	16000	20000	25030

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

SOURCE/SU \$5000000000000000000000000000000000000	10 20 115.0 118.3 115.0 118.3 115.0 118.3 115.0 118.3 115.0 113.7 115.0 113.7 115.0 113.7	ANGLE 30 118.4 1115.2 1113.8	40 DISTANCE OPERATION COPERATION	III - IIII I IOMONOOM	FROM SOURCE RUNUP, 90% R ENGINE 60 70 117.8 114.9 115.5 112.6 113.2 110.3 110.7 107.9		AAN GL) METEOR) METEOR) BA) DELTA) DELTA E (DEGREES) E (DEGREES) 1119.5 122.0	01067 NPRE R PRE L HUM = 110	SS = 29. 10 = 29. 13.0 08 120 120.0 1120.0 1150.0	130 F 130 130 124.4	5 4 6 4 6	ALICA PROFILE PAGE PAGE PAGE 150	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		02017 02017 A A A 4 4 4 9 4 9 9 9 9 8 8 8 8 6 6
ND RUN 1180 0 1116.36	RAFI 60118 60118 60116 601113 6011108 6011108 6011108 6011108	11 30 1116.	M W W W W W W W	- IIIII I IOMOIOOM			8 0 8 0 1 1 2 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1) METE()) DELTE()) DELTE()) DELTE() 100 () 3119.	OEKIZI	SS = 29. 10 = 20. 120 = 120. 120. 120.0 110.0	130 F 130 130 124.4	14.9	AIRC	RAFT ILE / E PR 76 160 * 113.2 1	WW 5 1 N - 1 D D	A 1 180 17 180 93 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1120 11150 11150 11110 11110	6 118 3 116 1 113 1 113 1 103 1 103	30 118. 115.	m.001000				13 24	10EGREE 30 100 30 112 30 117 50 117	110	toppe i		14.0			^ ~~~	180 93.0 98.6
120.6 118.3 116.6 113.5 111.0	6 118 1 116 6 1113 6 1111 1 108 7 106	116. 113.	m .0 01 m m .0				2 4		123.	to He			-	~ + 6		93.0
116.0 115.0 1113.5 1011.0	. 6 113. . 6 1113. . 1 108. . 4 108. . 5 108.	113	00000				-		171	t 00 h		128.2				90°8
113.5 111.0 108.3		1111							118	t	122.2	126.2	122.0 1			
111.0			m .c				. m		116.	٠		121.8				86.1
108.3		108.					m		1113.	6		119.4	-	9		83.
		1 106.	•				N		3 111.	m		117.0	_	N		81.
830 105.4 104.		3 103.	~				+		108.	2	110.6	m		•		78.
1000 102.4 101.5	150.	3		4.66	99.7		99.3 101	.5	0		107.9	111.	107.6			75.5
99.6	97.	0 97.1	0,	96.1		93.6	1	3.3 100.	7 102.3	3 101.8	104.9		104.6	93.8		72.6
95.4		10		95.5	92.8 9			94.7 97.	_		101.8	105.	101.4	80		9.69
91.5				88.5			9		N		98.5	101	98.0	9		66.4
0				84.1		82.6		86.6 89.	m		95.1	97.	84.2	9		62.
82.0	80.	+		79.2		2	2	2	•		6.06	95.	89.8	2		57.
76.0	75.	2		73.4		6	4	2	_		4 86.4	87.	84.9	t		52.
	69	6		67.8		8	+	+	_		81.7	82.	80.1	2		46.
6330 63.7 63.5	94.	2		61.8		2	,	6	0				75.1			40.
	58.6 59.	2		56.0		2	+	~	m			73.	71.5	9		34.
53.7	53.5 54.		51.	20.4			'n		5 63.1			69	67.7	9		29.4
48.4			45	4.44			-		m	58.		65.	63.5	_		21.1
42.2			38.	38.0			ø		2	53.		61.	59.0	80		12.
35.6		7 35.7		29.4	32.0 3	32.0	,	39.2 42.	6	47.	\$ 53.8	57.0	53.9	6.04	24.0	3
56.4		+	19.	17.9			2		2			52.	48.5	2	11.0	

NOISE SOUP			TO NOT INDI	ANGLE A	AND DIS	DISTANCE	FROM S	SOURCE								TES	T 74-083-001	1-083-001	Change.
GROUNI GROUNI	E SOURCE/SUBJECT: T-43A AIRCRAF ING. JT80-9A GROUND RUNUP	UB JECT 1 AIRCRAFT 9A	-		i w			206	A E	20000	METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	PP PRESS HUMID	=29.	59 F 92 IN H 70 %	9	AIRCRA OPERATI PROFIL	RUN 04 AIRCRAFT C OPERATION C PROFILE VER 08 APR 76 PAGE F4	00E 00E SI0	083 02017) N A
DISTANCE (FEET)	,	10	20	30	9	50	3	0,2	ANGLE	•	(OEGREES) 90 100	110	120	130	140	150	160 ,	92	180
200		101.5	100.9	100.	1000-1	100.0	100.9	160.3	102.5		107.4	106.8		110.7	112.1	109.9	0.66	0.69	19.0
		6.96		96	95.5	95.5	96.4	95.9	98.0		102.8	104.3		106.5		105.8	6.46	84.9	74.9
		84.5		94.	93.1	93.1	94.1	93.6	1.56		100.5	102.0		104.3		103.7	95.8	85.8	72.8
	93.6	92.1	91.7	91.6	90.7	90.6	91.6	91.2	93.3	40.66	98.1	99.7	99.0	102.1		101.5	90.6	80.6	70.6
	87.6	86.9	86.7	86.	85.6	85.4	86.5	86.2	88.3		93.0	94.7		97.5		196	86.0	76.0	66.0
1000	84.8	84.1	84.1	84.	82.8		83.9	83.6	85.6	87.6	90.3	92.2	91.7	95.0	96.1	94.2	83.5	73.5	63.5
1250	81.8	81.2		81.	80.0		81.0	80.9	82.9	84.8	87.6	89.5	89.1	92.5	93.4	91.5	80.9	6.02	6.09
000	78.7	79.2		78.	77.0		78.1	78.1	90.0	81.9	84.7	86.7	86.3	89.8	90.5	88.6	78.2	68.2	58.2
2000	75.4	75.1		75.	74.0		75.1	75.2	77.1	78.9	81.7	83.8	83.5	87.1	87.5	85.7	75.3	65.3	55.3
3150	68.2	23.1	4.27	68.8	67.3	2.07	68.4	68.7	73.9	72.3	75.3	77.5	77.1	80.8	80.5	78.6	68.5	58.5	48.5
0000	64.2	64.1	65.2	65.	63.6		1.49	65.0	6.90	68.5	71.6	73.9	73.5	77.2	76.6	74.6	64.5	54.5	44.5
5000	58.6	59.9	61.1	61.	565		60.09	61.0	62.8	64.4	67.5	69.8	4.69	73.1	72.3	70.2	60.1	50.1	40.1
6300	55.3	95.4	56.0	56.	55.0		56.2	56.5	58.4	60.0	63.1	65.5	65.0	68.8	64.9	65.7	92.6	45.6	35.6
00	51.3	51.4	52.7	55.	2005		51.9	55.5	24.5	22.1	58.9	61.3	6.09	6.49	64.2	62.2	52.2	45.2	32.2
13000	47.1	47.1	4.04	48	46.1		47.2	47.5	49.6	51.1	54.4	56.8	56.5	60.7	60.4	58.5	48.4	38.4	28.4
12500	45.5	45.6	43.7	43.	41.0		42.1	45.5	44.6	46.2	49.4	51.9	51.7	56.1	56.3	54.5	4.44	34.4	24.4
16000	37.5	37.6	38.7	38.	35.6		36.6	37.0	39.5	6.04	44.1	46.6	46.5	51.2	52.0	50.5	40.1	30.1	20.1
20000	35.2	32.3	33.5	32.7	29.7	28.7	30.05	31,1	33.3	35.1	38.2	40.8	6.04	45.9	47.7	45.8	35.5	25.5	15.5
	2 2																		

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

AS A FU NOISE SOURCE/SUB T-43A AI ENG. JT8D-9A GROUND RUNUP																N OMECA	A 8.2	OMEGA A.2	
OISE GE		A FUNCTION	9	ANGLE	AND DIS	DISTANCE	FROM SC	SOURCE								TEST	3	3-001	
	TAD-S	SOURCE/SUBJECT! 43A AIRCRAFT 1G. JTaD-9A	_ F		OPER	RATIONS ENGINE SINGLE	RUNUP, ENGINE	306	a a E	2000	METEUROLOGY TEMP BAR PRE REL HUM DELTA N =	PRESS HUMID	= 29. 0 08	59 F 92 IN HG 70 %	ی	PROFES	ATION ATION ILE V	C00 C00 RSI	E 083) E 02017) ON A)
DISTANCE (FEET)	•	3	20	30	9	50	09	5	ANGL 80	1	(OEGREES) 90 100	110	120	130	140	150	160	>170	>180
	104.8	103.8	162.9	103.	101.6	~		100.3	102.5				•		~	6.601	0.66	89.0	79.
250 10	102.5	101.5	100.5	100.4	99.4	99.9	100.3	98.1	100.3	102.4	105.1	106.6		108.5		107.9	6.96	86.9	76.9
	97.7		96.1	96	24.7		95.7	93.6	95.7			102.0				103.7	92.8	82.8	72.
	95.2		93.7	93.	92.3		93.2	91.2	93.3			99.7			٠ ٨	101.5	9006	80.6	70.
	95.6	91.8	91.2	91.	49.7		2.96	68.8	90.8			97.2			•	99.1	88.3	78.3	68
	6.69	89.1	88.7	89.	87.1		88.1	86.2	88.3			2 ** 5	01		m	2.96	86.0	16.0	99
	87.0	80.4	86.0	86.			85.4	83.6	85.6	87.6	90.3	92.2	91.7	95.0	96.7	94.2	83.5	73.5	63
1250	84.6		83.3	8 83.3	81.6	81.8	82.6	80.9	82.9	84.8	87.6	89.5	89.1	92.5	0.46	91.5	80.9	70.9	6009
	80.9		80.5	80.			79.7	78.1	80.0	81.9	84.7	86.7	86.3	89.8	91.1	88.6	78.2	68.2	58.
	7.77		77.5	77.			76.7	75.2	77.1	78.9	81.7	83.8	83.5	87.1	84.1	85.7	75.3	65.3	55.
	2 ** 2		74.4	7 4.			73.5	72.0	73.9	75.7	78.6	80.8	80.4	84.1	84.8	82.3	72.1	62.1	52.
	70.5		70.9	71.			70.0	68.7	70.6	72.3	75.3	77.5	77.1	80.8	81.1	78.6	68.5	58.5	48
	0.99		66.8	99			66.0	65.0	6.99	68.5	71.6	73.9	73.5	77.2	77.0	24.6	64.5	54.5	£
	61.2	61.2	62.2	62.			61.6	61.0	65. 8	9.49	67.5	69.8	4.69	73.1	72.7	70.2	60.1	50.1	40
	56.2	56.3	57.4	57.			56.8	56.5	58.4	66.0	63.1	65.5	65.0	68.8	68.1	65.7	55.6	45.6	35.
8000	21.8	51.8	53.1				55.5	55.5	54.5	22.5	58.9	61.3	6009	6.49	4.49	62.2	2.29	45.2	32.
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	4/.1	4/.1	+ 0° +	* 8			7.14	47.5	49.0	51.1	24.	26.8	26.5	2.09	4.09	58.5	48.4	38.4	28.
	45.5		43.1	43.			45.1	45.5	44.0	46.2	•64	51.9	51.7	56.1	56.3	24.5	44.4	34.4	54.
	37.5		38.7	38.3	35.6	34.6	36.6	37.0	39.5	6.04	44.1	9.94	46.5	51.2	52.0	50.5	40.1	30.1	20.1
2003	35.2		33.2	32.			30.0	31.1	33.3	35.1		40.8	40.9	45.9	1.1.	45.8	35.5	25.5	15.
	26.3		27.2	26.			24.3	24.8	27.0	28.9	31.	34.5	35.2	40.4	43.3	41.2	30.7	20.7	:

A S S S S S S S S S S S S S S S S S S S	AIRGRAFT	P=PNLT SINE SINE SINE SINE SINE SINE SINE SINE	RUNUP, 90% RPM ENGINE) METEC) 6) 6) 0 2 L T A	METEOROLOGY: FEMP = 59 BAR PRESS = 29.92 BEL HIMTO = 70	59 F 92 IN HG) KUN U4) AIRCRAFT CODE 083) OPERATION CODE 02017) PROFILE VERSION A) 08 APR 76	CODE 083
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. SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

NOTES SOURCE CYGUSLECTT (OPERATION! THE NAME OF THE N	TABLE: NO	NORMALIZED 1/3 OCTAVE DISTANCE =	SOUND BAND 250	4 H	ESSURE	LEVEL	۲ (08	-									DENTI OMEGA TEST	FICATION: 8.2 74-083-00	100.E	
CEMPER 4 1 10 20 30 440 54 660 70 40 110 110 110 130 140 150 160 270 240 40 653 84 84 85 86 86 86 87 88 91 92 92 92 91 97 111 111 111 111 111 111 111 111 1	. m	CE/SUBJEC AIRCRAF D-9A UNUP	.		$\mathbf{u} = \mathbf{v}$	KEOFF NGLE	ENG IN	97	8			EOROL EMP AR PRE	1 11 11 11 11	29.95	2	1	AIRCR OPERA PROFII	78.0	CODE	063 0203 A
50 64 86 86 85 86 86 87 88 90 91 93 97 102 107 106 100 90 90 90 91 92 95 99 99 107 110 117 102 92 92 90 90 91 90 92 95 99 91 917 110 110 117 112 110 110 117 112 110 110 117 112 110 110 117 112 110 110 117 112 110 110 117 112 110 110 117 112 110 110 117 112 110 110 117 112 110 110 117 112 110 110 117 112 110 110 117 112 110 110 117 112 112 112 112 112 112 112 112 112	BAND CENTER		10	20	30	6,	5.0	09	A O	GLE 80	90	ES 1	110	. 0	130	1 1	1 10			>180
63 84 84 85 85 86 86 87 86 97 91 92 95 95 107 110 107 102 92 81 109 113 113 110 110 107 102 92 109 90 90 90 90 90 90 90 90 90 90 90 90 9	90	91	80	81	82	83	82	48	86	88	90	91	93	46	102	107	106	100	90	80
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100 90 90 80 88 88 87 90 91 92 94 96 97 101 105 113 117 111 102 92 81 165 96 94 95 96 102 106 113 116 113 102 92 81 166 94 95 95 96 96 97 96 102 106 113 116 112 102 92 81 166 94 95 92 91 92 91 92 93 93 93 94 96 100 105 108 116 114 101 91 82 82 92 92 91 91 92 92 91 91 93 94 96 100 105 108 106 118 112 102 92 83 84 95 91 91 94 96 100 105 107 108 109 101 91 80 85 91 91 91 92 93 94 96 100 102 107 108 109 101 91 92 93 95 91 91 91 92 93 94 96 96 91 101 101 102 107 105 92 88 92 91 91 91 92 93 94 96 91 91 91 92 93 91 91 91 92 93 94 96 91 91 104 102 92 93 95 91 91 91 92 93 94 97 91 101 101 101 102 92 93 95 91 91 92 93 91 91 92 93 94 97 91 101 101 101 101 102 92 93 92 91 91 92 93 94 97 94 97 94 101 101 101 101 95 82 77 66 92 91 91 92 93 91 93 91 93 92 94 94 95 91 91 92 93 94 94 95 91 91 92 93 94 94 95 91 91 92 93 94 94 95 91 91 92 93 94 94 95 91 91 92 93 94 94 95 91 91 92 93 94 94 95 91 91 92 93 94 94 95 91 91 92 93 94 94 95 94 94 94 95 94 94 94 95 94 94 94 95 94 94 94 95 94 94 94 95 94 94 94 95 94 94 94 94 95 94 94 94 94 94 94 94 94 94 94 94 94 94	90	98	88	96	85	96	88	69	76	91	95	96	26	103	109	113	110	101	91	81
1659 942 942 942 943 943 944 945 94 100 1101 113 113 1102 942 84 100 1105 110 110 1101 1101 1101 1101 1	100	06	06	88	9 6	87	06	16	95	16	96	26	101	105	113	117	111	102	95	82
250 91 92 92 92 92 91 92 93 93 94 96 100 105 100 1105 1100 92 92 92 92 92 92 92 92 92 92 92 92 92	125	26	26	16	36	90	o c	91	500	3,0	95	86	102	106	113	118	113	102	36	28
250 91 93 94 92 89 88 89 90 91 91 94 96 104 108 111 112 102 92 82 44 92 93 94 92 89 88 89 94 94 95 98 104 108 111 112 102 92 93 94 92 93 94 95 87 87 88 89 94 95 97 144 167 167 167 167 167 167 167 167 167 167	200	96	* 6	6 6	26	16	26	9.5	2. 6	0 6	0 7	96	100	107	1113	116	116	101	96	81
315 92 93 93 93 91 87 87 88 88 91 94 96 102 107 108 109 101 91 89 88 7 90 91 91 92 93 93 87 87 87 88 88 91 94 96 102 107 105 105 105 98 88 7 90 91 91 92 93 95 91 88 87 88 91 91 91 92 92 91 88 88 89 91 91 91 92 92 91 88 88 92 91 91 91 92 92 91 91 92 92 91 91 92 91 91 92 91 91 92 91 91 92 91 91 92 91 91 92 91 91 92 91 91 92 91 91 92 91 91 92 91 91 92 92 91 91 91 92 92 92 92 92 92 92 92 92 92 92 92 92	250	91	93	94	92	89	8 8	68	90	91	63	95	86	104	108	111	112	102	92	82
\$\text{6.00}\$ \$\	315	95	93	93	91	87	87	87	88	88	16	16	96	102	101	108	109	101	91	81
510 91 92 93 92 87 88 89 91 91 95 97 101 104 105 103 95 85 7 8 8 8 8 9 91 91 91 92 97 100 102 104 104 105 103 95 85 7 8 9 8 91 91 91 92 91 91 92 91 91 92 91 91 92 91 91 92 91 91 92 92 92 92 92 92 92 92 92 92 92 92 92	904	46	93	65	93	87	87	87	89	87	93	95	26	101	105	107	105	86	88	7.8
630° 91 91 92 91 88 88 89 91 91 95 97 100 102 104 104 102 92 82 77 100 69 89 89 89 91 91 91 94 97 99 101 103 103 103 89 79 69 100 100 89 89 89 79 69 100 100 89 89 89 79 69 100 100 89 89 89 79 69 100 100 89 89 89 79 69 100 100 89 89 89 79 89 89 89 89 89 89 89 89 89 89 89 89 89	200	91	95	93	95	87	87	88	06	89	46	96	86	101	104	105	103	96	85	75
80 89 90 91 88 88 89 91 91 91 81 81 88 89 91 91 94 97 191 103 103 100 89 79 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	630	16	91	35	91	88	88	68	91	91	95	46	100	102	104	104	102	95	82	72
1000 69 88 90 90 89 90 92 91 94 97 100 101 101 102 99 87 77 6 1250 87 86 89 90 90 92 91 94 96 100 101 101 101 97 84 74 6 100 101 101 87 87 89 89 90 90 92 91 94 96 100 101 101 101 97 84 74 6 100 100 83 84 85 86 86 88 89 90 91 94 95 98 98 99 99 99 95 81 77 6 5 2500 83 84 85 86 86 88 89 90 91 94 97 97 97 97 97 97 97 97 97 97 97 97 97	900	69	68	90	91	88	88	68	91	91	76	26	66	101	103	103	100	89	79	69
1250	1000	69	88	90	90	68	9.0	90	95	91	76	16	100	101	101	102	66	87	11	67
1500 87 87 89 90 90 91 92 93 92 95 96 100 101 100 100 96 82 72 6 2500 83 84 86 86 86 88 89 90 91 94 95 96 99 100 99 99 81 71 6 2500 83 84 85 86 86 86 89 90 91 94 95 96 99 100 99 99 81 71 6 2500 83 84 85 86 86 86 89 90 91 91 92 97 97 97 97 97 97 97 97 97 97 97 97 97	1250	18	98	89	90	89	06	06	95	31	16	96	66	100	101	101	97	94	14	49
2000 63 64 86 87 87 89 89 90 93 95 96 99 100 99 99 95 81 71 6 2500 83 84 85 86 86 86 88 89 90 91 94 95 98 98 99 97 97 97 78 66 5 3150 86 86 86 86 89 90 91 94 95 98 98 98 96 99 97 77 67 57 67 59 600 92 91 90 90 93 90 91 91 92 97 97 100 97 95 95 89 77 67 57 67 59 600 82 82 83 83 83 86 86 86 88 93 94 97 94 92 92 92 86 77 67 5 5 63 5 63 63 60 80 80 80 89 90 97 97 94 92 92 90 91 87 67 5 67 5 63 60 80 80 80 80 80 80 80 80 80 80 80 80 80	1000	87	87	68	06	90	91	35	93	35	95	96	100	101	100	100	96	82	72	62
250ú 83 84 85 86 86 88 89 90 91 94 35 98 98 97 97 93 78 68 5 8 3150 86 86 86 87 88 89 90 91 95 96 98 98 96 96 91 77 67 5 4000 92 91 90 90 93 90 91 91 92 97 97 100 97 95 95 89 77 67 5 5 5000 82 82 83 83 83 86 86 86 85 91 97 97 94 92 92 92 86 77 67 5 5 6300 80 81 81 82 83 83 85 85 91 92 95 99 91 82 77 67 5 5 63 5 8000 80 80 81 81 82 83 83 85 85 95 95 97 97 94 92 92 92 86 73 63 5 6 63 5 6 64 54 4 10000 74 74 74 75 74 76 76 76 78 77 83 85 87 84 83 85 76 64 54 4 4 4 00VERALL 103 103 104 103 101 102 103 104 105 104 105 106 109 112 115 120 125 122 111 101 9 SPL DATA MERE EXTRAPOLATED FOR THIS ANGLE.	2000	83	40	98	87	87	89	83	90	93	96	96	66	100	66	66	95	81	11	61
3150	2500	83	94	85	98	98	88	69	90	91	46	36	96	86	16	26	93	78	99	28
4000 92 91 90 90 93 90 91 91 92 97 97 100 97 95 95 89 77 67 5 5000 82 82 82 83 83 86 86 86 89 93 94 97 94 92 92 86 73 63 5 63 5 63 5 63 6 80 80 81 81 82 82 83 83 85 85 91 92 95 92 90 91 82 71 61 5 8000 80 80 81 81 82 81 82 81 82 83 88 90 92 89 87 89 80 68 58 4 10000 74 74 74 75 74 76 76 76 78 77 83 85 87 84 83 85 76 64 54 4 000VERALL 103 103 104 103 101 102 103 104 105 108 109 112 115 120 125 122 111 101 9 SPL DATA MERE EXTRAPOLATED FOR THIS ANGLE.	3150	96	96	Q D	96	87	88	68	90	91	96	96	96	98	96	96	91	11	29	21
5000 82 82 83 83 83 86 86 84 88 93 94 97 94 92 92 86 73 63 5 63.00 83.00 80 81 81 82 82 83 83 85 91 92 92 99 91 82 71 61 5 80.00 80 81 81 82 81 82 81 82 83 88 90 92 89 87 89 80 68 58 4 1000 74 74 74 75 74 76 76 76 78 77 83 85 87 84 83 85 76 64 54 4 000ERALL 103 103 104 103 101 102 103 104 105 104 105 108 109 112 115 120 125 122 111 101 9 SPL DATA MERE EXTRAPOLATED FOR THIS ANGLE.	9004	95	91	06	90	93	90	91	91	95	26	26	100	26	95	66	68	11	67	25
630C 80 81 81 82 82 83 83 86 91 92 95 92 90 91 82 71 61 5 800C 80 80 81 81 82 81 82 83 88 90 92 89 87 89 80 68 58 4 1000 74 74 74 75 74 76 76 78 77 83 85 87 84 83 85 76 64 54 4 000ERALL 103 103 104 103 101 102 103 104 105 104 105 108 109 112 115 120 125 122 111 101 9 SPL DATA MERE EXTRAPOLATED FOR THIS ANGLE.	2000	82	82	83	83	83	98	96	8 9	88	93	96	26	76	95	3.5	98	73	63	53
8000 80 81 81 82 81 82 83 88 90 92 89 87 89 80 68 58 4 10000 74 74 74 75 74 76 76 78 77 83 85 87 84 83 85 76 64 54 4 000ERALL 103 103 104 103 101 102 103 104 105 108 109 112 115 120 125 122 111 101 9 SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.	6300	9.0	81	81	82	95	83	83	90	85	91	95	95	36	9.0	91	85	7.1	61	51
10000 74 74 74 75 74 76 76 78 77 83 85 87 84 83 85 76 64 54 4 OVERALL 103 103 104 103 101 102 103 104 105 108 109 112 115 120 125 122 111 101 9 SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.	9008		81	81	82	81	82	81	82	83	88	90	95	68	87	89	80	68	58	48
OVERALL 103 103 104 103 101 102 103 104 105 108 109 112 115 120 125 122 111 101 9 SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.	10000		14	14	15	7.4	92	92	8 2	11	83	85	87	84	83	85	92	9	24	*
SPL DATA WERE EXTRAPOLATED FOR THIS ANGL	OVERALL	103		+01	103	101	0	8	10	0	0		112	-	2			111		91
	SPL	MERE	RAPOL		OR .	•	NGLE.													

	AS A	AS A FUNCTION OF ANGLE	N 0F A		AND DIS	DISTANCE	FROM S	SOURCE) TEST		74-083-001	
NOISE SOURCE/SUBJECT: 1-43 AIRCRAF ENG. JI40-9A GROUND RUNUP	URCE/S A JT & D-	UBJECT 1 AIRCRAFT 9A UP	_=		0 PE	OPERATIONS TAKEOFF SINGLE	F POWER, ENGINE	726 .	α H		METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	· · ·	= 59 S =29.92 D = 70 3.0 08	L HX	5	PAGE	RAFT RATIO	CODE CODE ERSION	083 02030
DISTANCE (FEET)	9	97	26	30	9	50	9	202	ANGL		(DEGREES) 90 100	110	120	130	140	150	160	>170	1180
200	117.0	116.7	116.9	116.	117.1	116.6	117.4	Λ.	118.9	122.8	124.	126.9				128.	116.9	106.9	7.96
315	114.7	114.4	117.3	114.6	117.4	117.0	115.2	115.9	116.7	118.1	121.	124.6	124.6	123.6	129.6	125.9	114.8	104.8	94.5
400	109.9	109.6	109.9	109	109.9		110.3		111.9	115.6		119.8				121	110	100.4	90.1
200	107.3		107.3	107.	107.3		107.7	10	109.3	113.1	114.	117.3	117.		122.	119.2	108.	98.2	87.8
030	104.6	104.3		104.	104.5		105.0	105.8	.0	110.4	111.	114.5	115.0	116.5	120.4	116.8	106.1	95.8	85.4
930	101.7	101.4	101.7	101	101.6			103.0	80	107.6		111.6	112.4	113.9	117.7	114.2	103.7	93.4	82.9
1000	98.6	98.3	94.6	94.5	98.4				100.9	104	105.8				115.0		101.2	8.06	80.2
1250	95.2		4.66	95.2	95.0		95.4	0	97.8	-		105.3	106.7	108.3	111.9		98.2	87.8	77.1
1600	91.6		95.4	91.9	91.2	91.7	95.6	93.8	94.5						108.7	105.	95.0	84.6	74.0
2000	88.6		89.3	88.5	87.4		89.5	90.3	6.06	94.0	95.6	98.5	100	102.1	105.1	101.	91.9	81.4	70.9
2500	84.7		85.4	84.9	83.6			96.6	87.3	90.1				98.4			88.0	77.5	6.99
3150	80.3		81.1	80.8	19.5			85.5	82.7	85.8			95.	94.4		93.	83.6	73.1	62.4
4000	15.6		10.6	76.3	74.9	75.7		17.9	17.9	81.1				89.8		88.	18.6	68.1	57.0
2000	7.0.7		71.8	71.5	6 %			73.0	72.7	76.1			85.	85.0		84.	73.7	63.0	51.8
6300	9.59		66.7	4.99	2 ** 4			67.5	67.2	20.6			77.	80.0	81.8	19.0	68.7	57.8	45.8
8000	61.3	61.6	65.5	62.2	59.3			62.3	05.5	6.59				76.1	78.1	75.3	65.1	53.9	41.3
10000	56.7		58.1	57.	54.3			9.76	57.5	61.2	63.	66.5	69.0	72.	74.1	71.	61.1	9.64	36.1
12500	51.7		53.2	52.	48.7			52.3	52.0	56.0	58.	61.4	64.2	67.	69.6	67.	56.7	***	30.1
16000	46.2		47.9	47.4	42.1	42.7	43.3	45.9	45.6	20.4	52.9	55.7	58.9	62.	65.5	62.6	51.9	39.0	21.9
20000	39.9		41.2	40.	34.8			38.9	38.6	43.8	• 9 •	49.7	53.3	57.	61.2	57.	46.2	32.1	11.0
25000	3.65		77 0	33	2 .10						-				,			-	•

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

LOKETA TO OFFICE HOUSE HOUSE HOUSE																	DIMEGA	OMEGA A.2		
UNCE/SUBJECT: (OPERATION:		AS A	UNCTIC	1 90 NI		IO ON	STANGE		OURCE) TES		83-001	
113-6 119-0 119-0 119-7 119-5 116-6 118-8 118-2 119-5 123-3 124-0 127-9 126-8 127-9 132-2 128-0 116-9 116-9 116-9 117-1 119-1 118-1 118-1 118-5 118-5 118-5 118-9 117-2 118-3 123-1 128-9 132-2 128-0 116-9 116-9 116-9 117-1 118-9 117-2 118-3 118-9	NOISE SC T-4: ENG- GROL	URCE/S A JT&D-	JBJECT I	_ t-		~		POWER	37.6	A PH		ETEORG TEM BAR BAR REL	1 7 4	= 29.9 .0 08	FHX	ي	PRO PE		CODE CODE ERSION	0 6 3 0 0 2 0 3 0 A
113-6 119-0 119-0 118-7 119-5 116-6 118-8 118-2 119-5 123-3 124-0 127-9 126-8 127-9 136-1 126-9 116-9 116-8 116-9 116-8 117-2 116-7 116-8 116-9 116-8 126-8 126-8 126-8 126-8 116-9 116-8 116-9	DISTANCE		10	20	30	3	25	6.0	7.0	ANGL	1	100 100	110	120	130	140	150	:	:	180
117.4 116.7 116.7 116.4 117.2 114.3 116.5 115.9 117.2 121.9 121.7 125.7 124.6 125.8 130.1 125.9 114.6 110.6 110.0 114.1 114.6 112.1 114.1	200	119.6		119.0		119.5	116.6	118.8	N		123.3	124.0	•	126.8	127.9	~		•	106.9	1.96
115.0 114.3 114.4 114.8 112.0 114.1 113.6 114.8 118.6 119.3 123.3 122.3 122.6 123.6 123.8 112.7 110.8 112.5 111.9 110.9	250	117.4				117.2	114.3	116.5	6		121.0	121.7		154.6	155.8	_	•	•	104.8	94.5
110.6 111.9 111.9 111.0 111.0 112.0 110.9 110.0	315	115.0				114.8	112.0	114.1	9		118.6	119.3	m .	122.3	123.6	-			102.6	95.4
101.2 100.5 100.7 100.4 107.7 100.1 101.3 105.4 107.1 111.0 111.6 115.5 115.0 116.5 120.9 116.9 116.9 106.1 101.3 105.4 107.1 111.0 111.6 115.5 115.9 116.9 116.9 116.9 116.9 116.1 101.3 103.7	3 0	116.5				116.3	109.5		- 4		11002	116.9		120.0	171.		•		1000	90.1
104.4 103.7 103.8 103.5 104.0 101.3 103.4 103.0 104.3 108.2 108.8 112.7 112.4 113.9 118.3 114.2 103.7 93.4 101.2 101.5 101.5 101.6 101.5 101.6 101.5 101.6 101.5 101.6 101.5 101.6 101.5 101.6 101.5 101.6 101.5 101.6 101.5 101.6 101.5 101.6 101.5 101.6 101.5 101.6 101.5 101.6 101.5 101.6 101.5 101.6 101.5 101.6 101.5 101.6 101.5 101.6 101.5 1	630	107.3		106.7	106.4	107.0	104.2		105.8			1111.6		115.0	116.5	120.9	u e		95.8	85.4
97.8 97.3 97.5 97.0 97.4 95.0 137.2 97.0 98.3 101.9 105.6 109.6 111.3 115.5 111.4 1101.2 90.8 97.8 97.3 97.2 97.0 98.3 101.9 102.6 106.7 108.3 112.5 108.4 98.2 87.8 97.8 97.3 97.5 97.0 97.4 95.0 97.2 97.0 98.4 101.9 102.6 106.7 108.3 112.5 108.4 98.2 87.8 97.8 97.3 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8	900	104.4		103.8	103.5	164.0	101.3		103.0	-		108.8	-	112.4	113.9	118.3	~	-	93.4	82.9
101.2 100.0 103.7 100.4 100.9 98.1 100.3 100.0 131.4 105.2 105.8 109.5 109.6 131.3 135.5 131.4 130.2 97.8 97.8 97.8 97.0 97.4 95.0 37.2 97.0 97.2 97.0 97.2 97.0 97.2 97.0 97.2 97.0 97.2 97.0 97.4 93.9 93.8 93.0 98.4 93.6 106.3 105.2 109.2 109.2 109.2 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8																				
94.4 93.7 94.5 93.8 93.6 91.7 93.9 93.8 95.0 98.4 99.1 103.5 103.5 105.2 109.2 105.2 95.0 84.6 91.2 90.6 91.3 90.4 89.8 86.1 84.5 86.2 90.5 90.4 103.5 103.5 105.2 109.2 105.2 95.0 84.6 91.2 90.6 91.3 90.4 87.8 86.1 84.5 86.7 86.1 84.5 86.5 87.5 90.6 91.7 95.6 96.2 90.4 101.6 97.8 83.6 73.1 77.7 77.5 74.5 74.8 75.8 75.8 75.8 75.9 77.9 77.9 77.9 77.9 77.9 77.9 77.9	1250	97.8	97.3	97.5	100.	100.9		100.3	1001		N 6	105.8	109.5	109.6	1111.3	115.5				77.1
91.2 90.6 91.3 90.4 89.8 86.2 90.5 90.3 91.4 94.5 95.6 99.5 100.0 102.1 105.6 101.6 91.9 91.4 91.4 91.8 86.7 86.7 86.1 84.5 86.7 86.6 87.5 90.6 91.7 95.6 96.2 98.4 101.6 97.8 88.0 77.5 83.1 82.0 82.7 86.1 84.5 82.6 82.5 83.2 86.3 87.4 91.4 91.4 97.4 97.0 93.4 83.6 73.1 77.5 74.3 77.8 76.8 75.7 77.9 77.9 77.9 77.9 77.9 77.9 77.9	1500	4.46		94.5		93.6		93.9	93			99.1	103.9	103.5	105.2	109.2	105.2	95.0	9.40	74.0
87.3 86.7 87.5 86.1 84.5 86.1 86.6 87.5 99.6 91.7 95.6 96.2 98.4 101.6 97.8 88.0 77.5 77.5 77.5 87.9 88.5 83.2 86.3 87.4 91.4 92.1 94.4 97.0 93.4 83.6 73.1 77.7 77.5 77.8 77.8 77.8 77.8 77.8 77.8	2000	91.2		91.3	90	8 9 . 8		900	90	91.4	10	92.6	99.5	100.0	102.1	105.6	101.6	91.9	81.4	70.9
83.0 82.0 83.2 82.7 81.9 80.3 82.6 82.5 83.2 86.3 87.4 91.4 92.1 94.4 97.0 93.4 83.6 73.1 77.7 77.5 74.3 77.8 76.8 77.8 77.8 77.8 77.8 77.8 77.8	2500	87.3	46.7	87.5	99	86.1		86.7	85.	87.5	.0	91.7	92.6	96.2	4.86	101.6	97.8	88.0	77.5	6.99
77.7 77.5 74.3 77.8 76.8 75.7 77.8 77.9 78.3 81.5 82.8 86.6 87.5 89.8 92.1 88.8 78.6 68.1 72.3 77.3 77.5 77.8 77.9 78.3 81.5 82.8 86.6 87.5 89.8 92.1 88.8 78.6 68.1 72.3 72.3 73.1 72.6 71.3 70.8 72.5 73.0 73.0 75.4 77.9 81.4 82.7 85.0 87.1 84.0 73.7 63.0 66.7 85.0 87.1 84.0 73.7 63.0 66.7 87.6 80.0 82.0 79.0 68.7 77.6 80.0 82.0 79.0 68.7 77.8 80.0 82.0 79.0 68.7 77.8 80.0 82.0 79.0 68.7 77.8 80.0 82.0 79.0 68.7 77.8 73.5 76.1 78.2 75.3 65.1 53.9 56.1 85.1 53.9 56.1 87.2 75.3 65.1 53.9 56.1 87.8 73.5 76.1 78.2 75.3 65.1 53.9 56.7 57.2 58.1 57.7 54.3 54.9 55.5 57.6 57.5 61.2 63.6 66.5 69.0 72.0 74.1 71.4 61.1 49.6 51.7 52.4 53.2 52.8 48.7 49.4 50.1 52.0 56.0 58.9 65.1 65.9 57.2 56.7 47.4 42.1 42.7 43.3 45.9 45.0 50.4 52.9 55.7 53.9 55.1 57.5 61.2 5	3150	83.0	82.0	83.2	82.	81.9		82.6	82.	83.2	m	87.4	91.4	32.1	94.4	97.0	93.4	83.6	73.1	62.4
72.3 72.3 73.1 72.6 71.3 70.8 72.5 73.0 73.0 75.4 77.9 81.4 82.7 85.0 87.1 84.0 73.7 63.0 66.7 66.7 67.5 67.1 65.3 65.3 66.8 67.5 67.4 70.9 72.9 75.9 77.6 80.0 82.0 79.0 68.7 57.8 66.7 66.7 67.6 67.1 67.3 65.3 65.3 65.3 67.4 70.9 72.9 75.9 77.6 80.0 82.0 79.0 68.7 57.8 61.8 62.1 62.9 62.0 59.0 61.1 62.3 62.0 60.0 68.3 71.3 73.5 76.1 78.2 75.3 65.1 53.9 56.7 57.2 58.1 57.7 54.3 54.9 55.5 57.6 57.5 61.2 63.6 66.5 69.0 72.0 74.1 71.4 61.1 49.6 51.7 52.4 53.2 52.8 48.7 49.4 50.1 52.0 56.0 58.5 61.4 64.2 67.6 69.9 67.2 56.7 44.4 46.5 77.5 47.4 47.2 41.6 42.7 42.1 42.7 43.3 45.9 45.0 50.4 52.9 50.4 55.9 50.7 53.9 57.5 61.2 62.6 51.9 39.0 33.9 40.3 41.2 41.6 52.6 24.6 25.0 25.9 23.2 29.8 35.1 39.2 42.4 46.5 51.5 56.6 52.7 40.0 22.7	0004	7.77	17.5	76.3	77.	76.8		17.8	77.	78.3	10	85.8	96.6	87.5	89.8	92.1	88.8	78.6	68.1	57.0
66.7 66.7 67.6 67.1 65.3 65.3 66.8 67.5 67.4 70.9 72.9 75.9 77.6 80.0 82.0 79.0 68.7 57.8 61.8 62.1 62.9 62.0 59.8 60.0 61.1 62.3 62.6 66.0 68.3 71.3 73.5 76.1 78.2 75.3 65.1 53.9 56.7 57.2 58.1 57.7 54.3 54.9 55.5 57.6 57.5 61.2 63.6 66.5 69.0 72.0 74.1 71.4 61.1 49.6 51.7 52.4 53.2 52.8 48.7 49.4 50.1 52.3 52.0 56.1 58.5 61.4 64.2 67.6 69.9 67.2 56.7 44.4 46.2 47.0 47.4 42.1 42.7 43.3 45.9 45.5 50.4 52.9 55.7 58.9 62.8 65.5 62.6 51.9 39.0 38.0 43.8 46.5 49.7 53.3 57.6 61.2 57.5 46.2 32.1 33.9 52.5 33.0 33.8 32.6 24.6 25.0 25.9 29.8 36.1 39.2 42.4 46.5 51.5 56.6 52.7 40.0 22.7	5000	72.3	72.3	73.1	72.	71.3		72.5	73.	73.0	+	77.9	81.4	82.7	85.0	87.1	84.0	73.7	63.0	51.8
61.8 62.1 62.9 62.6 59.8 60.0 61.1 62.3 62.6 66.0 68.3 71.3 73.5 76.1 78.2 75.3 65.1 53.9 56.7 57.2 58.1 57.7 54.3 54.9 55.5 57.6 57.5 61.2 63.6 66.5 69.0 72.0 74.1 71.4 61.1 49.6 51.7 52.4 53.2 52.8 48.7 49.4 50.1 52.3 52.0 56.0 58.5 61.4 64.2 67.6 69.9 67.2 56.7 44.4 46.2 47.4 47.4 47.4 42.1 42.7 43.3 45.9 45.0 50.4 52.9 55.7 58.9 62.8 65.5 62.6 51.9 39.0 33.9 40.3 41.2 40.6 34.8 35.4 36.0 38.9 38.0 43.8 46.5 42.4 46.5 51.5 56.6 52.7 40.0 22.7	6330	2.99	2.99	67.6	67.	65.3		66.8	67.	4.19	5	72.9	15.9	77.6	80.0	82.0	19.0	68.7	81.4	45.6
56.7 57.2 58.1 57.7 54.3 54.9 55.5 57.6 57.5 61.2 63.6 66.5 69.0 72.0 74.1 71.4 61.1 49.6 51.7 52.4 53.2 52.8 46.7 49.4 50.1 52.0 56.0 56.0 58.5 61.4 64.2 67.6 69.9 67.2 56.7 44.4 46.2 47.0 47.9 47.4 42.1 42.7 43.3 45.9 45.0 50.4 52.9 55.7 58.9 62.8 65.5 62.6 51.9 39.0 39.9 40.3 41.2 40.6 34.8 35.4 36.0 38.9 38.6 43.8 46.5 49.7 53.3 57.6 61.2 57.5 46.2 32.1 32.5 33.0 33.8 32.6 24.6 25.9 25.7 29.8 36.1 39.2 42.4 46.5 51.5 56.6 52.7 40.0 22.7	8436	61.8	62.1	65.9		59.8		61.1	62.	95.0		68.3	71.3	73.5	76.1	78.2	75.3	65.1	53.9	41.3
51.7 52.4 53.2 52.8 48.7 49.4 50.1 52.3 52.0 56.0 58.5 61.4 64.2 67.6 69.9 67.2 56.7 44.4 46.2 47.9 47.4 42.1 42.7 43.3 45.9 45.6 50.4 52.9 55.7 58.9 62.8 65.5 62.6 51.9 39.0 39.9 40.3 41.2 40.6 34.8 35.4 36.0 38.9 38.6 43.8 46.5 49.7 53.3 57.6 61.2 57.5 46.2 32.1 32.5 33.0 33.8 32.6 24.6 25.9 25.9 29.8 36.1 39.2 42.4 46.5 51.5 56.6 52.7 40.0 22.7	10000	56.7	57.2	58.1	57.	54.3		55.5	57.6	57.5	61.2	63.6	66.5	69.0	72.0	74.1	71.4	61.1	49.6	36.1
46.2 47.0 47.9 47.4 42.1 42.7 43.3 45.9 45.6 50.4 52.9 55.7 58.9 62.8 65.5 62.6 51.9 39.0 39.0 39.9 40.3 41.2 40.6 34.8 35.4 36.0 38.9 38.6 43.8 46.5 49.7 53.3 57.6 61.2 57.5 46.2 32.1 32.5 33.0 33.8 32.6 24.6 25.0 25.9 29.8 36.1 39.2 42.4 46.5 51.5 56.6 52.7 40.0 22.7	12500	51.7	52.4	53.2	52.	48.7		50.1	52.3	52.0	56.0	58.5	61.4	64.2	9.79	66.69	67.2	56.7	4.4.4	30.1
39.9 44.3 41.2 44.6 34.8 35.4 36.4 38.9 38.6 43.8 46.5 49.7 53.3 57.6 61.2 57.5 46.2 32.1 32.5 32.1	16000	46.2		47.9	47.	42.1		43.3	45.9	45.0	50.4	52.9	55.7	58.9	62.8	65.5	62.6	51.9	39.0	21.9
32.5 33.0 33.8 32.6 24.6 25.0 25.4 29.2 29.8 36.1 39.2 42.4 46.5 51.5 56.6 52.7 40.0 22.7	20000	39.9		41.2	40.	34.8		36.0	38.9	38.6	43.8	46.5	49.7	53.3	57.6	61.2	57.5	46.2	32.1	11.0
	25000	32.5		33.8	32.	24.6		25.3	23.62	29.8	36.1	39.5	45.4	46.5	51.5	9.95	52.7	40.0	22.1	•

NOISE SOURCE/SUBJECT: T-43A ENG. JT80-9A GROUND RUNUP DISTANCE (FET) 200 101.7 101.5 1250 99.4 315 97.3 97.2 400 92.7 92.6 500 92.7 92.7 92.6 500 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7	30URCE/SUBJECT: 43A AIRCRAFT 16. JT80-9A 00UND RUNUP 101.7 101.5 1 99.5 99.4 1 97.3 97.2 95.6 95.0 94.9 95.7 92.6 95.7 92.6	2001 1002 2003 2003 2003 2003 2003 2003	! !	(OPER			-) TES	TEST 74-083-001	3-001	
CFETANCE 200 1250 1400 6500 6500 6500 6500 6500 6500 6500 6	-		30 162. 100. 98. 95.		OPERATIONS TAKEOFF SINGLE E	F POWER,	7.26	A A		METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	PRESS HUMID	=29.	7 H X	5	PROPER PAGE	AIRCRAFT (OPERATION (PROFILE VER	SODE	0 2 0 3 0 A
•	-		162. 100. 98. 95.	9	50	0.9	7.0	ANGL		(DEGREES) 90 100	110	120	130	140	150	160	>170	180
			100. 98. 95.	101.	102.2			:0				112.9	2			103.3	93.3	83.3
			95.	9.66	100.0	160.7 1	101.9	102.3	105.9		110.0	110.7	4	114.3	~	101.2	91.2	81.2
			93.	95.	95.5			2 ~		102.8			107.8	n _	o u	99.6	87.1	17.
				92.	93.1							104.1		. ~	105.3	6.46	84.9	7.4.
	6		91.	90.	90.7			0				101.7		10	6	92.7	82.7	72.
			88.	87.	88.2							99.3	•	-	10	7.06	90.4	70.
	4 65.3	86.	. 86.			36.2	87.5	87.7	91.2	92.9	95.5	96.8	98.5	100.5	9.8	88.0	78.0	68.
		83.	8 83.	3 82.2	95.9	83.5	84.9	85.0	88.4	30.5	95.8	94.2	0	97.8	95	85.4	75.4	65.4
1600 80.1			81.			60.7	82.1	82.2	85.5	87.4	90.0	91.5		95.0	92.	82.7	72.7	62.
			78.			77.8	73.2	79.2	82.6	84.5	87.1	88.7		92.0	.68	19.8	69.8	59.
			15.			74.7	76.1	16.0	19.4	81.4	84.0	85.6		88.7	86.	9.92	9.99	56.
3150 70.9			72.			71.3	72.8	72.7	76.0	78.2	80.7	85.3	0	85.2	82.	12.9	65.9	52.
		68	68	99	67.0	2029	69.5	69.0	72.3	74.6	77.1	78.7	80.4	81.3	78.	69.9	58.9	48.
			•	62.3		63.0	65.2	6 • • 9	68.2	20.5	73.0	74.7	m	77.1	74.4	64.5	54.5	*
9300	20.00	•	9		20.0	29.5	9.00	000	0.50	100	9.80	70.3	7	15.0	69	60.0	20.0	40.
	0	•	• 00	•		24.6	100	7 .00	23.2	6 • 10	*	1.00		600	•	2000	*0*	9
1,000 50.6	6 50.8	51.	51.	48.	4.64	50.0	51.8	51.4	54.9	57.4		61.7	63.7	6.49	62.3	52.8	42.8	32.
12500 46.0		47.	1 46.	9 43.8			46.7	46.3	50.0	55.5	54.8	9.95	59.5	60.7	58.1	48.7	38.7	28.7
	_		41.	38.	38.7	39.5	41.2	40.8	44.6	47.1	49.4	51.6	54.3	56.5	53.7	44.3	34.3	24.
20000 35.7	35.	36.	30.	32.		33.1	35.2	34.8	38.8	41.1	43.5	16.0	49.1	51.0	49.1	39.7	29.7	19.
25000 29.		30.	9 30.	25.		26.0	28.8	28.5	32.4	34.8	37.2	40.0	43.7	47.0	44.3	34.7	24.7	14.

NOISE S	AS A	A FUNCTION OF		ANGLE A	AND DIS	DISTANCE	FROM SC	SOURCE								TEST	1 74-0	74-083-001	
GRO	URCE/S A JT 80-	UBJECT 1 AIRCRAFT 9A UP	- E		O PER	RATIONS TAKEOFF SINGLE	POWER, ENGINE	27.6	A M		METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	PRESS HUMID	=29. 0 08	59 F 92 IN H 70 %	9	A A I ROOFE	RUN 05 AIRCRAFT OPERATION PROFILE VE 08 APR 76 PAGE GS	C00E C00E RSION	083 02030
DISTANCE (FEET)	9	10	20	30	3	5.0	09	7.0	ANGL	. CDE 90	GREES	110	120	130	140	150	160	>170	×180
206	104.3	103.8	104.5	104	164.2	102.2	•	_	1.15.0		100.5	113.3	112.9	114.2	σ	113.7	2.20	2.50	83.2
250	102.1			102.2	162.0	100	102.0	101.9	102.8	90	107.3	111.0	110.7	112.1		111.7	101.2	91.2	81.2
315	99.9			100.0	1.66	97.8	-	9	100.6	~	105.1	108.8	103.6	109.9	20	109.6	99.5	89.2	79.2
400	97.6			97.	4.76	95.5	10	+	38.3	01.8	102.8	116.5	106.3	107.8	9	107.5	97.1	87.1	77.1
200	95.3			95	95.0	93.1	_	0	6.56	+	10004	104.1	104.1	105.6	+	105.3	6.46	6.49	74.9
530	95.9		93.	93.	95.5	2.06	~	0	93. +	•	98.0	101.7	101.7	103.3	0	102.9	92.7	82.7	72.7
000	90.5	90.1	90.9	2.06	90.0	88.2	01	-	6.06		95.4	99.5	99.3	100.9	o	100.5	4.06	90.4	4.07
1000	88.0	87.6	84.5	88.	87.3	85.6	87.6	87.5	88.3	91.7	92.9	94.6	96.8	6.80	161.0	98.0	88.0	78.0	68.0
1250	85.4	85.			84.6	82.9	6.48	84.9	95.5	88.9	90.2	93.8	94.2	95.9	98.3	95.3	85.4	75.4	65.4
1600	82.7	82.		83.	=	80.1	82.1	82.1	82.7	86.1	87.4	91.0	91.5	93.2	95.5	92.4	82.7	72.7	62.7
2000	80.0	19.6		80.		77.1	79.1	73.2	79.7	83.1	84.5	88.1	88.7	90.4	95.5	89.5	19.8	69.8	59.8
2500	70.9	76.6		77.	3	74.0	76.0	75.1	76.6	6.62	81.4	85.0	85.6	87.4	89.3	86.2	76.6	9.99	56.6
3150	73.5	73.		74.	è	7.07	72.6	72.8	73.2	76.6	78.2	81.7	82.3	84.0	85.7	82.6	72.9	65.9	52.9
0004	69.3			70.	68.2	67.0	68.7	69.5	4.69	72.8	14.6	17.9	78.7	80.4	81.7	78.6	68.8	58.9	48.9
2000	9.49			.50	ň	63.0	4.49	65.2	65.2	68.5	20.5	73.5	7.4.7	76.3	77.4	74.4	64.5	54.5	44.5
6300	29.1		60.	60.	÷	58.0	2.65	60.8	2.09	0.49	06.1	69.0	70.3	71.9	72.9	6.69	60.0	50.0	40.0
87.00	55.3	55.4	56.5	20.4	;	24.5	55.0	56.4	2.95	9.69	61.9	9.49	66.1	0.80	69.0	66.2	56.5	46.5	36.5
				,					i										
10000	20.00	20.00	51.9	21.0	100	40.	20.	51.0	51.4	24.0	37.6	20.00	61.	63.7	6.49	62.3	25.8	42.8	32.8
16200	• • • •			•	40.0	7.44		*00	40.0	20.0	25.5	24.0	20.0	2966	2.00	20.1	*8.	2001	789
16,00	41.1			41.	38.3	38.7		41.2	40. A	44.6	47.1	40.4	51.6	54.3	299	53.7	44.3	34.3	24.3
20000	35.7	35.9	36.8	36.	32.3	32.6		35.5	34.8	38.8	41.1	+3.5	46.0	49.1	51.6	49.1	39.7	29.7	19.7
25000	29.8			30.	55.9	26.2		28.8	28.5	32.4	34.8	37.2	40.0	43.7	47.0	44.3	34.7	24.7	14.7

	ANCE = 250	FEET) TEST	TEST 74-083-001
NOISE SOUR(SUBJECT I AIRCRAFT -9A NUP	OPER	F POWER, ENGINE	97% RPH	METEOROL TEM 3 AR 1 REL	PRESS HUMID	59 F 70 %	PPROPE PROPE	RAHL
		P=PNLT			A=AL		T=ALT		
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. SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

FT U-2													F1 U-2
AIRCRAFT												> 0	AIRCRAFT AIRCRAFT
0-2						PAGE	. 595-603 . 604-612 . 613-621	ä	AFT, SELT, EPNL)	, SELT, EPNL)		S E . A . O . D . H . D . H . R	2 2 5
AIRCRAFT AIRCRAFT		GROUND BY	AIRCRAFT	RATIONS	.MENTS 518 1 A B			THE FOLLOWING DATA ARE PROVIDED:	ANCE FROM AIRCRAFT PNL, PNLT, SEL, SE	PNL, PNLT, SEL,		F O A C E B A A A A A A A A A A A A A A A A A A	AIRCRAFT AIRCRAFT
2 2 		PRODUCED ON THE GROUND	AIR	DURING FLIGHT OPERATIONS	ER MEASUREMENTS AFT CODE: 518 LE VERSION: A R PROGRAM OMEGA			OLLOWING DA	AT PNLM SLANT DIST SPECTRA (AL, ALT,	SPECTRA (AL, ALT,	26 APR 76	A I R S	2 2 5
A I R CRAFT A I R CRAFT		NOISE PROD	U-2	DURING	FLYOVER AIRCKAFT PROFILE COMPUTER P	ωl	RPM	SETTING,	NORMALIZED MEAN SPL SPECTRUM AT PNLM NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE AIR-TO-GROUND PROPAGATION SOUND PRESSURE LEVEL SPECTRA SINGLE EVENT MEASURES (AL, ALT, PNL, GROUND-TO-GROUND PROPAGATION	SOUND PRESSURE LEVEL SINGLE EVENT MEASURES		A T T E B D I C A B C	AIRCRAFT AIRCRAFT
2 2						POWER SETTING	TAKEOFF 102% RPM APPROACH 96.5% RPM . INTERMEDIATE 93% RPM	FOR EACH POWER	NOISE LEVELS AIR-TO-G SOUN SING GROUND-T	SOUN		A P P P P P P P P P P P P P P P P P P P	222
AIRCRAFT						J. I.	I A I	띪	N			4 3 m 0,	AIRCRAFT AIRCRAFT
22													222

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AIRCRAFT	- 5				:	OPER T	AKEO AKEO 102	N N N N N N N N N N N N N N N N N N N	PHER	D KNOT	STO STO		20000	ETEOR	TEMP REL H	- 5	10 = 2 08	20 7	u ×	?	A/C OPS PROF 26 A PAGE	CODE CODE ILE PR 7	# 51 WER:	8 M 4
SLANT DISTANGE (FEET)	17	18	19	20	22	22	83	54	52	FRE 26	QUEN(NCY B	AND 29	NUMBE 3.0	31 31	32	83	* m	35	36	37	3.8	66	
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315	18	85	84	16	0		160	~	10		03	02	2	02	03	03	10	03	01	0	96	95	76	6
004	85	83	82	95	66		98	2	02		00	00	0	00	00	01	02	0.1	66	9	76	95	91	6
200	83	81	80	96	26	66	96	m	00	96	96			98	96	66	66	86	96	95	91	89	87	8
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800	19	11	92	98	93	95	91		9	95	16			46	46	76	*6	66	91	68	84	81	11	2
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1250	15	73	71	82	89	91			91	87		90		89	89	68		87	84	82	92	7.1	65	57
1600	73	71	69	80	86	68	85	82	68	85		87		86	86	86		84	80	11	7.1	69	26	3
2000	7.1	69	29	78	84	87			18	83		85		9.4	83	83		80	16	72	69	25	24	2
2500	69	19	65	92	82	84			85	81		82		81	80	80		92	7.1	99	58	64	35	7
3150	29	69	63	14	80	82			83	78		83		7.8	11	11		72	99	65	20	38	21	
4000	69	63	61	72	78	80			8 0	92		11		25	14	73		99	29	51	41	56	4	
5000	63	09	56	70	16	78			78	73		47		7.1	20	68		60	51	41	30	11		
6300	61	28	25	68	14	16			75	17		7.1		29	65	63		53	42	59	16			
8000	66	96	22	69	11	73	69	99	72	89	69	29	69	63	9	25	25	*	31	1,4				
10000	96	24	53	63	69	71	19			79	69	63		5.8	55		*	34	18					
250	24	52	20	61	19	68	49			61	61	65		55	48		34	22	2					
909	52	64	84	58	19	9	61			25	25	24		45	40		22	9						
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* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

* BAND WHICH DETERMINES THE TONE CORRECTION (C).

		MOTING					•	OMEGA 6.6
AIRCRAFT : U-2		(OPERATION: (TAKEOFF	POWER RPM		METEOROLOGY: TEMP REL HUMIO	.0 = 59 07 = 0	F ×	A/C CODE: 518 OPS CODE: 103 PROFILE VER: A
		(AIRSPEE	D = 300 KNOTS	TS)	DELTA N = .2	90		26 APR 76 PAGE I1
LANT DISTANCE	Ħ	ALT**	PNL	PNLT**		SEL	SELT**	EPNL **
(FEET)	(OBA)	(084)	(PN08)	(PN08)	•	(80)	(08)	(EPNDB)
200	117.7	118.6	131.2	132.1	11	117.3	118.3	120.9
250	115.5	116.4	128.9	129.8	11	116.1	117.1	119.6
315	113.3	114.2	126.6	127.5	11	114.9	115.9	118.3
201	111.0	111.9	124.3	125.2	7	113.6	114.6	116.9
200	108.7	109.6	121.8	122.7	# :	112.3	113.3	115.5
800	103.8	104.7	116.6	117.5	10	109.4	110.4	112.3
1000	101.3	102.2	113.8	114.7	10	107.9	108.9	110.5
1250	98.7	99.5	110.9	111.8	10	106.3	107.3	108.6
1600	6*56	96.8	107.8	108.7	10	104.5	105.5	106.5
2000	93.1	0.46	104.6	105.5	10	102.7	103.7	104.3
2500	90.1	91.0	101.2	102.1	10	100.8	101.8	101.9
3150	87.1	88.0	9.76	98.5	6	18.7	1.66	99.3
9004	83.9	84.6	93.9	9.46	6	96.5	97.3	4.96
2000	80.5	81.1	90.5	91.1	6	34.2	8.46	93.8
6300	77.1	77.4	87.1	87.4	6	11.7	92.1	91.1
9000	73.5	73.7	83.4	83.6	•	6	89.3	88.3
10000	2.69	69.7	79.6	79.6	•	4.91	86.4	85.3
12500	6.59	62.9	75.7	75.7	8	83.5	83.5	82.3
16000		61.8	71.5	71.5	80	4.08	80.4	79.2
20300		7 63			•			
	2/00	21.0	0.70	0.79		7.2	77.2	75.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

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	. A+	• A+	A+	A+ .	A+	· d. · · · ·	d.*•	• •	· · · · · · · · · · · · · · · · · · ·			•		•	•		•	•		
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AIRCRAFT: U-2 SLANT DISTANCE 17 (FEET) 200 86 250 84		50 46 87		PER		-			1	-	-	-	-			-					
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7.8		85	95	93	0	8	2		2		3 9	3 9	6		93	91	90	9			3
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* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

GROUND	GROUND-TO-GROUND P	PROPAGATION					OMEGA 6.6
AIRCRAFT: U-2		(OPERATION: (TAKEOFF (102 %	POWER		METEOROLOGY: TEMP REL HUMIO	= 59 F = 70 %	A/C CODE: 518 OPS CODE: 103 PROFILE VER:
* * * * * * * * * * * * * * * * * * * *		(AIRSPEE	0 = 300 KNOTS	115	DELTA N = .2	08	PAGE M1
SLANT DISTANCE	AL	ALT**	PNL	PNLT**	35	SEL SELT**	EPNL**
(FEET)	(DBA)	(084)	(PN08)	(PN08)	0		3)
200	112.7	113.8	126.2	127.2	112	.3 113.5	116.0
250	110.5	111.6	123.9	125.0	111.	.1 112.3	114.8
315	108.3	109.3	121.6	122.7	109.	•	113.5
004	106.0	107.1	119.3	120.3	108.	.0	112.1
200	103.7	104.7	116.8	117.8	107.		110.6
630		102.3	114.2	115.2	105	3 107.	109.0
800	98.8	8 • 66	111.5	112.5	104	105.	107.3
1000	96.2	97.3	108.6	109.7	102	.9 104.0	105.4
1250	93.6	9.46	105.5	106.6	101	2	103.3
1600	90.8	91.8	102.2	103.2	66	t	101.0
2000	87.9	88.9	98.7	2.66	.16	9.86 5.	98.5
2500	84.7	85.8	6.46	6.56	95	t	1.56
3150	81.4	82.4	2.06	91.7	93,	0	95.5
0007	17.7	29.82	9	86.8	06	3	88.6
00	73.5	74.2	81.0	81.7	87.	2	4.48
30	69.1	69.5	15.7	76.1	63	7	79.8
9000	2.49	6.49	0	71.1	0.8	4	75.8
10000	60.1	60.1	66.2	66.2	76.		71.8
12500	55.1	55.1	+	61.2	72		67.9
16000	49.7	49.7	55.8	55.8	68	8.3 68.3	63.4
20000	43.8	43.8	6	49.7	63		58.4
		-					

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

250		T				٠	. A+	•	
315	C TEM	AIRSPEED = TEMP = 59 F OELTA N =	300 KNOTS REL HUMID	7 07 = 01	٠	•	A+.	a *	
004	(. NO.	NO. OF RECO	RECORDS: 1	4.76=A	•	•	٠ +٧	4	
200						A+.	** • • • •	d	
630	.:.	•	•	1 P 10 P 10 P 10 P 10 P 10 P 10 P 10 P	0.00	• A •	4	# P	
900		•	•			A+	*		
1000		•		•		. A+			
1250					•	A+	•	10 TO 10 TO	
1600		•	•	•	. A+	•		2. A0	
2000		:			A+	d			
2500	.:.	•	•	•	A+ .		•	21.19.10	
3150		•		. A.	<u>.</u>				
0004				A + .	•				
2000		:	× · · · · · ·	4.					112
6300		•	×	×	•	•			
8000		•	×.	100 100 A	•			100	
10000			· · · · · · ·	•			•		
12500	×	×	Total Control	•	•		GROUND.	- "	
16000	×	×		•	•	•	• • •	= PNL = ALT	
20000	·	:					•	= AL	200
25000	(

ZH MOZPHOHO HZ

50 30

						,		2			•					(60)					DENITE ICALION	1 .	, in	-
	HTH		ATK-IO-GROOMD	2	2 4 6	207.4														- 7	40300	0		
AIRCRAFI	- 5					OPER	APPROACH	_ ~	POWE	œ			2000	ETEOR	OLO TEN	GY: PHUMI	" "	59 6	F %		A/C OPS PROF	CODE	1 51 1 10 VER:	D W A
						A	IRSP	EEO	= 21	D KNOT	OTS		0	ELTA	2	•	2 08				PAGE	H2		
SLANT										FREG	QUEN	00	AND	NUMBE	E.								191 23	
DISTANCE (FEET)	17	18	19	20	51	22	23	54	52	56	27	28	σ	30	31	35	8	*	32	36	37	80	39	5
200	88	87	98	16		105	101	0	m	03	102	101		100	66	100	66	96	96	96	91	89	87	89
250	96	92	84	95		103	66	8	-		100	66		86	26	26	26	96	93	95	88	98	84	85
315	9.4	83	82	93	100	101	16	96	66	66	98	96	26	96	95	95	95	46	91	90	96	83	81	81
004	82	81	90	91	98	66	95	+	26	96	96	76		46	93	93	93	91	88	87	83	80	11	11
200	80	2	28	83	96	26	93	~	95	46	46	35		95	91	91	06	68	96	78	80	11	73	72
630	78	11	92	87	36	95	91	0	93	35	95	90		06	88	88	88	96	83	81	11	73	69	99
900	92	52	47	82	95	93	69	0	91	96	96	10		80	98	9	82	40	80	28	73	69	63	53
1000	14	73	72	83	90	91	87			88	88	86	98		84	83	83	81	11		69	19	27	51
1250	72	11	69	81	88	89	85	83	98	98	85	94	83	83	81	81	80	78	73	20	49	58	20	41
1600	20	69	19	62	98	87	83			84	83	81	81		7.8	7.8	11	74	69		66	25	41	29
2000	68	29	9	11	84	85	81			81	81	62	6.2		92	15	73	7.0	69		53	**	31	15
2500	99	65	63	15	82	83	62			79	18	92	91		73	7.1	7.0	99	9		94	35	18	
3150	49	63	19	73	80	80	92			11	92	12	73		69	68	69	61	24		37	54	m	
0004	62	61	29	12	11	78	14			14	73	7.1	0.2		99	49	61	96	14		27	10		
2000	9	29	25	99	15	16	72			72	20	68	29		61	29	52	64	39		15			
6300	28	25	25	99	73	14	69			69	29	49	63		25	53	64	41	53		0			
8000	26	24	53	9	17	17	29			99	19	61	29		21	47	41	35	17					
10000	54	52	20	62	68	69	49	62	19	62	9	25		51	45			21	m					
12500	25	20	48	29	99	99	61	59	61	66	96	55		tt	38	31	22	80						
16000	64	48	40	25	63	63	58	96	25	52	55	14		37	53	20								
20000	47	45	43	24	60	60	52	25	53	20	9 4	41	35	59	19									
25600	45	43	41	51	25	25	51	48	64	45	40	33		18	~									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1 * BAND WHICH DETERMINES THE TONE CORRECTION (C).

AIR-TO-GROUND	ď	OPAGATION						ONEGA 6.6
AIRCRAFT 8 U-2		(OPERATION: APPROACH POWER 95.5 % RPM	POWER RPM		METEOROLOGY B TEMP REL HU	MID =	59 F 70 %	A/C CODE: 518 OPS CODE: 105 PROFILE VER:
		(AIRSPEED	= 210 KNOTS	115	DELTA N =	.2 08	•	26 APR 76 PAGE I2
SLANT DISTANCE	AL	ALT**	P N	PNLT**		SEL	SELT**	EPNL **
(FEET)	(DBA)	(08A)	(PNDB)	(PNDB)		(08)	(08)	(EPNDB)
200	110.2	110.2	123.3	123.3		109.6	110.4	113.9
250	108.1	108.1	121.1	121.1		108.4	109.2	112.7
315	105.9	105.9	118.8	118.8		107.3	108.1	111.4
004	103.7	103.7	116.5	116.5		106.1	106.9	110.0
200	101.5	101.5	114.1	114.1		104.8	105.6	108.6
630	99.5	99.2	1111.6	111.6		103.5	104.3	107.1
900	96.8	8.96	109.0	109.0		102.2	103.0	105.5
1000	94.4	4.46	106.2	106.2		100.8	101.6	103.8
1250	92.0	92.0	103.4	103.4		99.3	10001	102.0
1600	89.4	4.68	100.5	100.5		97.8	98.6	100.1
2000	86.8	86.8	97.5	97.5		96.1	6.96	98.1
2500	84.0	0 * 19	2.46	1.46		4.46	95.2	96.2
3150	81.2	81.2	91.7	91.7		95.6	93.4	94.3
4000	78.3	78.3	88.6	88.6		9006	91.3	92.0
5006	75.2	75.2	85.3	85.3		88.6	89.1	9*68
6300	72.0	72.0	81.9	81.9		86.4	86.7	0.78
8000	68.7	68.7	78.4	78.4		84.1	84.2	84.3
10000	65.2	65.2	74.8	74.8		81.6	81.6	81.6
12500	61.6	61.6	71.1	71.1		78.9	78.9	78.8
16000	57.7	57.7	67.1	67.1		76.1	76.1	15.8
20000	53.7	53.7	65.9	65.9		73.1	73.1	72.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASEU ON SMOOTHED TONE CORRECTION FUNCTION.

* · · · · · · · · · · · · · · · · · · ·

SH MOZPHOHD

SHNHASOM HS FMMH

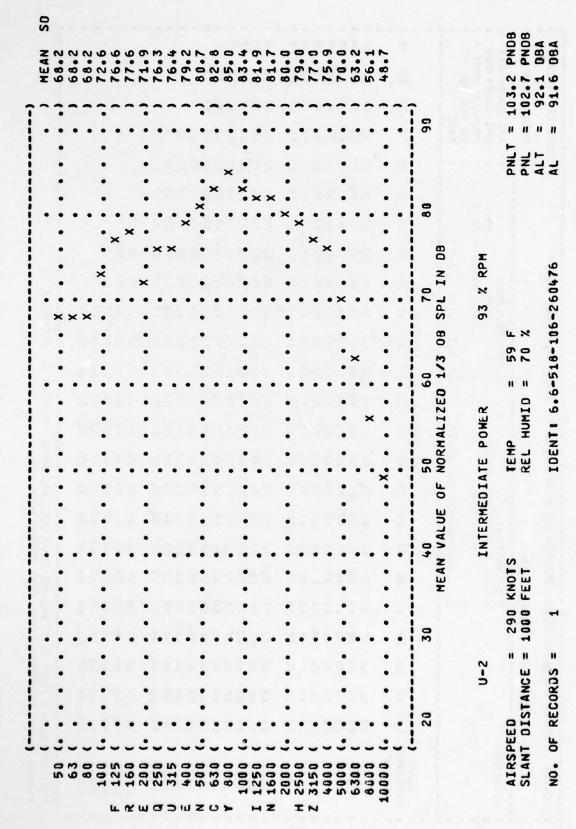
	GROU	SROUND-TO-GROUP	0-GR	GROUND-TO-GROUND	PRO	PAGA	TION														OMEGA 6.6	9	9
AIRCRAFT	- 5				,,,,,,	OPER	AFIO PPRO 96.5	~	1 14	1			2000	ETEOR	OROLOG TEMP REL	- F		59 F		7	A/C OPS PROF	8834	518 105 ER:
				-	-	A	IRSP	EEO	= 21(0 KNOTS	210		2 -	ELTA	" Z	2.	08			- !	PAGE	7	-
SLANT DISTANGE (FEET)	11	18	19	20	12	22	23	54	52	FRE0	QUENC 27	24 B	29 P	NUMBE 30	8 E	32	89	# #	8	36	37	8	4
200	8.3	82	8	6	6	100	96		80	86	47	96	9	20	10			20	6	_	4		•
250	8 6	80	100	000	0.5		70		96	9	95	2 6	0 0	20	00			200	4 8		۰ ۳		
315	52	78	11	88	95	96	92		96	76	63	91	20	91	90			6 8	96		, -	1 00	٠.
004	17	26	15	98	93	36	06		92	91	91	89	90	89	88			86	83	. ~	. «	2	٥
200	75	17	73	84	91	91	88	87	06	89	89	87	87	87	86	98	85	84	81	62	12	72 6	9
630	73	72	7.1	82	88	89	85		88	87	87	85	85	85	83			81	78	9	2		4
800	7.1	7.0	69	96	98	96	82		9 8	85	85	83	83	83	81			62	52	2	80		80
1000	69	89	19	11	83	83	62		83	83	83	81		80	62	78		92	72	6	4		
1250	29	99	63	14	80	80	16		80	81	80	79		7.8	16	92		73	68	2	6		
1600	9	63	9	20	92	11	73		11	62	78	16		75	73	73		69	49	0	t		
2000	62	65	26	99	72	73	69		1.4	16	9/	14		73	71	7.0		69	09	75	48	39 2	26 1
2500	66	25	55	62	99	99	94		20	73	73	71		7.0	68	99		61	55	8	+		
3150	55	51	48	25	63	19	59		69	69	7.0	69		29	19	63		99	64	-	2		
0004	20	94	45	55	25	58	24		69	19	99	65		63	61	69		51	45	2	2	2	
2000	45	41	37	14	53	53	64		24	58	62	61		09	96	24		11	34	-	0		
6300	9 4	37	33	45	84	84	44		8 4	53	25	99		99	25	48		36	54	8			
8000	38	34	31	9	9+	40	1,	0 +	45	20	24	53	53	51	94	45	36	27	15				
10000	36	32	28	38	43	43	39		42	94		64		94	0 4			16					
12500	34	30	56	35	41	41	36		39	43		**		39	33		17	m					
16000	31	28	54	33	38	38	33		35	39		39		32	54	15	t						
20300	59	25	21	30	35	35	59	27	31	34	36	33	59	54	14								
		-	-	-	10000000				-	-													

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1 * BAND WHICH DETERMINES THE TONE CORRECTION (C).

GROUND-T	GROUND-TO-GROUND P	ROPAGATION					•	OMEGA 6.6
AIRCRAFT: U-2		(OPERALION: (APPROACH POWER (96.5 % RPM	H POWER		METEOROLOGY: TEMP REL HU	# OIW	59 F	A/C CODE: 518 OPS CODE: 105 PROFILE VER:
		(AIRSPEE	D = 210 KNOTS	TS	DELTA N =	.2 08	~ ~	26 APR 76 PAGE M2
SLANT DISTANCE	AL	ALT**	PNL	PNLT**		SEL	SELT**	EPNI **
(FEET)	(08A)	(DBA)	(PNDB)	(PN08)		(08)	(00)	(EPNDB)
200	105.2	105.2	118.3	118,3		104.6	105.4	108.9
250	103.1	103.1		116.1		103.4	04.	107.6
315	100.9	100.9	113.8	113.8		102.3	103.1	106.4
004	98.7	7.86	111.4	111.4		101.1	101.9	105.0
200	4.96	4.96	109.0	109.0		8.66	100.6	103.6
0.50	•	94.1	100.4	100.4		98.5	99.3	105.0
800	91.7	91.7	103.7	103.7		97.1	6.76	100.3
1000	89.3	89.3	100.8	100.8		1.56	96.5	7.86
1250	86.7	86.7	97.8	97.8		94.1	6.46	4.96
1600	84.1	84.1	9.46	9**6		95.4	93.2	94.2
2000	81.3	81.3	91.2	91.2		9006	91.4	91.8
2500	78.2	78.2	87.5	87.5		88.6	4.68	89.1
3150	14.8	74.8	83.4	83.4		86.2	87.0	86.0
0004	71.1	71.1	78.9	78.9		83.5	84.1	82.3
5000		6.99	74.0	74.0		80.5	80.7	78.3
6300	62.3	62.3	689	68.9		7.97	77.0	74.0
0000	58.5	58.2	4	2.49		73.5	73.7	70.7
10000	53.6	53.6	60.2	60.2		70.0	70.0	67.0
12500	48.7	48.7	55.5	55.5		66.1	66.1	63.0
16000	43.4	43.4	9.64	9.64		61.8	61.8	58.4
20000	37.6	37.6	45.9	45.9		57.0	57.0	52.7
2000								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

TEMP = 59 F REL HUNID = 70 X NOCATION = 208	250 (96. AIRS	Q "	210	KNOTS				•		×		•	×	
No. OF RECORDS: 1 DENT: 5.6-518-105-260476-A No. OF RECORDS: 1 DENT: 5.6-518-105-260476-A No. OF RECORDS: 1 DENT: 5.6-518-105-260476-A No. OF RECORDS: 1 DENT: 5.6-518-105-260476-A No. OF RECORDS: 1 OF RECORDS	315 (. TEMP	= 59 F	REL 2 08		10	•		•		×		*		
X	2	NO.	OF RECO	-		4	•		•		*		×		
X X X X X X X X X X X X X X X X X X X	00		•		•	•	•		•	× .			· · ×		
X X X X X X X X X X X X X X X X X X X	2	•	•	•		•	•		•-	×	•	×			
X X X X X X X X X X X X X X X X X X X			•			•	•		*			*	•		
X X X X X X X X X X X X X X X X X X X			•				:		· · · ·	•	×		:		
x x x x x x x x x x x x x x x x x x x	20 0		•			•	•	×		×	•				
X X X X X X X X X X X X X X X X X X X	=		•			•	•	×		×			•		
x x x x x x x x x x x x x x x x x x x	0	:	•	:	:	•	*•	•	×.			:	•	:	
x x x x x x x x x x x x x x x x x x x	2		•				*	×	•						
x x x x x x x x x x x x x x x x x x x			•			•	· ×	×	•		•		•		
X X X X X X X X X X X X X X X X X X X			•	•		×	×		•						
SROUND 1 SROUND 1 SROUND 1 STATE OF THE S					× · ·	*	:	•	•					•	
GROUND 7			•		×	*	•		•		•		•		
GROUND 7 S			•	×	×	•		yl	•		•		•		
x x x x x x x x x x x x x x x x x x x	=		•	× · · ×		•	•		•				10.00		
X X X X X X X X X X X X X X X X X X X	0		×	×		•	•		•				PNLT		
· · · x · ·)	-	*	×			•	•		•		•	+ + <	ALT		
	-	x.		:		:	:		:	:		α .			



	AIR-	AIR-TO-GROUND	AIR-TO-GROUND	. a	A A	GATION	TION	2													OMEGA	2	9.9
AIRCRAFT	- 2		1			OPER	ATI NTE 9	ONE RMEDIATE 3 % RPH PEED =	1 6	POWER 0 KNOT	R 010		2000	i ii ii	TEOROLOGY TEMP REL HU	! . I .	10 = 2 08	70 7	L X	1	A/C OPS PROFI 26 AF	000E	# 518 # 106 VER:
SLANT DISTANCE (FEET)	17	91	5	28	2	22	23	24	25	FRE 26	QUENCY 27 2	8	AND 29	NUMB	31	32	33	34	35	36	37		66
200	80	82	80	85	91	92	9 4	91	91	96	96	96	100	96	96	96	95	95	96	76	95	89	87 87 84
315		2,5	78	83	87	88	82			06	91	16	96	95	16	36	93	95	91	95	~ :		
200		2.2	2.2	10	8 0	8 6	28			86	87	90	95	90	89	89	9 8	87	96	96	; ~		
630		72	72	11	81	82	92			94	85	87	9.0	88	87	87	85	85	83	83	80		
800		70	2	75	79	80	4			82	83	82	87	98	82	**	83	82	90	90	4		
1000	68	99	68	73	11	784	72		11	62	81	83		84	82	82	80	62	11	92	0		
1250	99	99	99	7	75	92	20		14	11	62	81		81	80	62	11	92	12	72	9		9 39
1600	40	49	9	69	73	2 5	9		22	22	92	7.8		62	27	9:	2:	2	2	29	.		
2500	79	20	200	65	7 89	2 6	0 4		2 %	22	12	9 2		9 2	2.2	22	27	0 0	000	22	17	2 4	17
3150	58	28	58	62	99	29	61		99	89	69	2		20	9	99	63	29	24	10	. 00		. ~
0000	96	96	26	9	49	69	59		63	65	99	99		29	49	62	58	24	47	39	8		
2000	24	24	24	28	62	63	25		61	63	79	69		63	9	25	53	14	39	28	9		
6300	52	52	52	54	60	53	25	58 56	22	92	61	9 2 8 2 8	58	26	20	55	39	30	29	15	-		
10000	*	14	14	51	55	55	64		52	24	24	24		64	1 1		30	19	m				
12500	45	45	45	64	52	53	40	20	100	20	64	64	80	43	36	62	13	5					
16000		43	43	94	20	20	43		45	94	45	+		35	27		9						
20000	41	0 4	40	44	47	1+1	40		41	41	39	38		56	17								
25000		*	**		1. 1.	1.1	36		3.0	*					•								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

AIRCRAFT: U-2 SLANT DISTANCE (FEET) 200 10	AL (08A)	OPERATIONS		111111				
	AL OBA)	I INIERMEDIA 1 93 % RP	IATE POWER		METEOROLOGY TEMP REL HI	1 = 5 UNIO = 7	F %	A/C CODE: 518 OPS CODE: 106 PROFILE VER: A
	AL OBA)	I AIRSPEED =	= 290 KNOTS	S	DELTA N =	.2 08		26 APR 76 PAGE I3
	084)	ALTOO		PNLT**		SEL	SELT**	EPNL
		(DBA)	(PN08)	(PNDB)		(08)	(08)	(EPNDB)
	108.2	108.8	120.9	121.5		105.9	107.9	110.1
	106.0	106.6	18	119.1		104.7	106.7	108.8
	103.8	104.3	116.2	116.7		103.5	105.5	107.4
	101.5	102.1	113.7	114.2		102.2	104.2	105.9
	99.2	99.7	111.1	111.6			102.9	104.3
	96.8	97.4	108.5	109.0		66.2	101.5	102.7
990	94.3	6.46	105.8	106.3			100.0	101.0
1000	91.8	92.3	102.9	103.4		96.5	98.5	99.1
1250	89.2	89.7	99.6	100.4		6.46	6.96	97.1
	499	87.0	9.96	97.2		93.1	95.1	8.46
	83.6	84.1	93.3	93.9		91.3	93.3	95.5
	9.08	81.2	89.9	4.06		89.3	91.3	90.1
	77.5	78.0	86.4	86.9		87.2	89.2	9.78
	74.2	74.6	85.8	83.2		84.9	86.5	9.48
	7.07	71.0	19.0	19.4		82.4	83.6	81.4
300	6.99	67.2	75.0	75.2		19.6	80.4	78.0
8000	65.9	63.0	7.07	70.8		16.6	77.0	74.3
	58.6	58.6	66.1	66.1		73.3	73.3	70.3
	24.0	24.0	61.6	61.6		2.69	69.7	66.8
	49.1	49.1	9.95	9.95		65.8	65.8	62.8
	44.0	0.44	51.3	51.3		61.7	61.7	58.5
25000	38.8	38.8	44.8	44.8		57.5	57.5	53.0

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

TEMP = 59 F NO. OF RECORDS: IDENT: 6.6-518- X X X X	250 (0-2 ATRS	¥ "	290 KNOTS	1010	·					¥	٠	×
TOENT 6.6-518-106-260476-A TOENT 6.6-518-106-A TOENT 6.6-518-106-A TOENT 6.6-518-106-A TOENT 6.6-518-106-A TOENT 6.6-518-A 315 (. TEMP	= 59 F	EL	= 70	. *						•	۵	
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* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS! 1 * BAND WHICH DETERMINES THE TONE CORRECTION (C).

SLANT DISTANCE AL ALT** (PNDB)	DISTANCE *		=	IDENTIFICATIONS
SLANT DISTANCE (DBA) (DBA) (PNDB) (CET) (DBA) (D			~ ~ .	OMEGA 6.6
AL ALT** (PNDB) ((DBA) (DBA) (PNDB) (103.2 103.7 115.9 101.0 101.5 113.6 96.5 97.0 116.0 91.8 92.3 111.2 96.5 94.7 116.0 91.8 92.3 1106.0 91.8 97.6 84.1 84.1 84.6 94.5 81.4 31.9 87.5 75.5 76.0 87.5 75.5 76.0 87.5 75.5 76.0 87.5 64.5 64.8 75.5 64.6 69.0 77.5 65.6 55.7 75.5 65.6 55.7 55.6 45.4 45.4 45.4	J C C .	METEOROLOGY: TEMP = REL HUMID =	59 F 5	A/C CODE: 518 OPS CODE: 106 PROFILE VER: A
AL ALT** (PNL (DBA) (DBA) DELTA	TAN = .2 08	^ ^	26 APR 76 PAGE M3
103.2 103.7 115.9 101.0 101.5 113.6 98.8 99.3 1111.2 96.5 97.0 116.0 91.8 92.3 1106.0 91.8 92.3 1106.0 91.8 97.5 103.4 89.3 89.8 100.6 81.4 84.6 94.5 75.5 76.0 87.5 75.5 76.0 87.5 64.5 66.8 75.5 64.6 65.0 65.8 55.6 55.7 55.6 45.4 45.4 45.4	PNLf**	SEL	SELT**	EPNL **
103.2 103.7 115.9 1113.6 119.0 1113.6 119.9 1113.6 119.5 99.3 1113.6 119.6 94.2 97.0 106.6 119.0 99.3 110.6 119.0 97.0 106.6 119.0 97.0 106.6 119.0 97.0 106.6 119.0 97.0 106.6 119.0 97.0 106.6 119.0 97.0 106.6 119.0 97.0 106.6 119.0 97.0 106.0 10	(PNDB)	(80)	(00)	(EPNDB)
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98.8 99.3 1111.2 1 96.5 97.0 108.6 1 91.8 92.3 103.4 1 89.3 89.8 100.6 1 81.4 84.6 97.6 87.5 77.5 79.0 87.5 79.0 87.5 64.5 64.8 77.5 79.7 79.7 79.7 79.7 79.7 79.7 79.7	114.1	7.66	101.7	103.7
96.5 97.0 108.6 1 91.8 92.3 103.4 108.6 1 86.8 87.3 89.8 100.6 1 81.4 81.6 91.0 91.0 75.5 76.0 83.7 79.7 79.0 83.7 79.7 79.7 79.7 79.7 79.7 79.7 79.7 7	111.7	98.5	100.5	102.3
94.2 91.8 92.3 103.4 11.8 86.8 87.3 87.6 84.1 81.4 81.9 75.5 76.0 75.5 76.0 83.7 75.5 60.0 60.0 60.0 60.2 65.6	109.2	97.2	99.2	100.8
91.8 92.3 103.4 1 1	106.5	6.36	6.76	89.5
89.3 89.8 100.6 1 86.8 87.3 97.6 81.4 81.9 97.6 75.5 79.0 87.5 72.2 72.7 79.7 68.6 69.0 75.5 66.8 66.8 70.9 60.1 60.2 65.8 55.6 55.7 61.0 55.4 45.4 45.4 42.1	103.9	6.46	96.5	97.5
86.8 87.3 97.6 84.1 84.6 94.5 94.5 81.4 41.9 94.5 94.5 78.5 72.2 72.7 79.7 79.7 79.7 79.7 79.7 79.7	01.1	93.0	95.0	9.36
84.1 84.6 94.5 81.4 31.9 91.0 78.5 79.0 87.5 72.2 72.7 79.7 68.6 69.0 75.5 64.5 64.8 70.9 55.6 55.7 61.0	98.1	91.5	93.4	93.8
81.4	95.0	89.8		91.6
78.5 79.0 87.5 72.2 72.7 79.7 68.6 69.0 75.5 64.5 64.8 70.9 60.0 60.2 65.8 55.6 55.7 61.0 45.4 45.4 45.4 42.1	91.6		90.1	69.5
75.5 76.0 83.7 72.2 72.7 79.7 68.6 69.0 75.5 64.5 64.8 70.9 60.0 60.2 65.8 55.6 55.7 61.0 50.7 50.7 50.7 55.6 45.4 45.4 45.4	88.0	86.2	88.2	86.7
72.2 72.7 79.7 68.6 69.0 75.5 64.8 70.9 60.0 60.2 65.8 55.7 61.0 61.0 61.0 61.0 65.4 65.4 65.4 65.4 65.4 65.4 65.4 65.4	84.3	;	86.1	83.9
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64.5 64.8 70.9 60.0 60.2 65.8 55.6 55.7 61.0 50.7 50.7 55.6 45.4 45.4 49.5 39.4 39.4 42.1	76.0	79.3	80.9	77.3
55.6 55.7 61.0 50.7 50.7 55.6 45.4 45.4 49.5 39.4 39.4 42.1	71.2	•	77.4	73.3
55.6 55.7 61.0 50.7 50.7 55.6 45.4 45.4 49.5 39.4 39.4 42.1	999	72.7	73.5	68.8
50.7 50.7 55.6 45.4 45.4 49.5 39.4 39.4 42.1	61.1	69.3	2.69	9.49
45.4 45.4 49.5 39.4 39.4 42.1	55.6	65.5	65.5	59.8
39.4 39.4 42.1	49.5	61.1	61.1	24.7
	42.1	56.1	56.1	48.3
32.8 32.8 33.7	33.7	50.5	50.5	6.04
25.4 25.4 23.6	23.6	44.1	44.1	31.8

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

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	A LIKRAFI LRCRAFI CRAFI TA	NOISE PRODUCEU ON THE GROUND BY U-2 AIRCRAFT DUAING GROUND RJN-UP OPERATIONS TEST 70-518-001 AIGCRAFT CODE: 518 PAGE TO TO CODE: 518 PAGE TO CORRECTED. AWD TO CODE: 518 PAGE TO CORRECTED. AWD TO CODE: 518 AWE CODE: 518 AWD TO CODE: 5
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NOISE SOURCE/	DISTANCE =	250 250	FEET	SSURE	LEVEL	(08)										DENTI	101	100.8	
ENG. J75-P-13 GROUND RUNUP	SUBJECT IRCRAFT 13	-		OPER SIS	RATION DLE, 6 INGLE ST. F-	8% 2P ENGIN	A, U-	8		METE TE BA DELT	PLATO	\$ SS 5	29.92 70 70 2.2 08	T I X		AIRCRAFT OPERATION PROFILE V 27 APR 76 PAGE C1	_ w	CODE	518 01013 A
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63	959		>59	>99	20	29	>69	99	9	29	99	>69	69	29	29	29	>99	634	62
9.0	69	69	29	69	20	69	89	69	69	20	20	7.0	72	72	72	69	29	m	614
130	89		68	20	11	72	69	69	11	72	72	72	73	73	72	11	69	m	29
125	69		7.0	71	72	20	69	72	73	14	74	75	75	92	73	73	10	62	58
16.	17		73	4.	1.	73	73	4.	15	16	77	11	11	11	73	72	68	61	26.
200	99		20	20	22	22	29	89	69	11	73	15	92	11	20	68	99	0	55
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204	7.4		73	7.1	1.4	73	72	7.1	7.5	72	73	75	15	16	69	90	63	21	20.
200	11		73	41	92	20	69	60	20	7.1	72	7.1	7.4	72	67	63	62	58	64
630	73		72	73	72	73	20	68	20	99	20	69	14	7.1	65	63	63	58	14
800	7.1		7.1	69	72	7.0	69	69	99	99	69	99	68	29	63	62	62	26	45
1000	7.0		68	72	73	72	89	19	29	49	65	99	68	68	69	65	69	29	64
1250	62		52	15	62	92	92	14	69	11	71	69	7.1	17	71	11	20	29	26
1630	85	98	95	83	92	62	22	7.8	7.0	75	15	14	7.1	73	72	71	7.0	29	96
2000	84		82	8.0	11	7.8	14	73	7.0	72	7.1	20	7.0	7.0	99	29	29	62	53
2500	81		81	81	80	90	72	7.0	69	99	72	69	69	69	19	99	99	9	51
3150	92		14	11	62	92	7.0	29	69	99	7.1	7.1	20	69	99	79	+9	66	64
4000	11	81	91	25	80	92	7.1	7.0	69	69	72	72	7.4	14	68	29	9	9	20
5000	92		94	14	14	72	99	69	99	65	69	29	69	69	79	9	09	25	47
6330	72	3	7.1	20	72	72	69	49	69	19	29	29	29	89	63	61	29	53	94
8300	7.0	69	69	68	7.0	89	29	63	95	49	29	29	99	69	63	9	25	51	43
10,00	69	*	19	63	19	63	58	09	23	9	65	49	99	99	61	21	24	41	40
OVERALL	9.0	91	06	69	68	18	48	*	83	9.4	85	98	87	87	83	81	80	75	7.0

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

	518) 01013)	180	78.6)	6.3)	4.0	0.1	66.5)	3.6)	•	60.6)	7.4)	3.9)	9.6	4.7	9.0	2.7	2.5)	1.7	6.	•	_	•	^	-	•
	CODE 518 CODE 010 RSION A				83.2 7			2		70.3 6									25.8		10.5				
ICATIO 8.2 6-518-	ON CO	170						9 73.														•	2		
A	AIRCRATI CODE OPERATION CODE PROFILE VERSION 27 APR 76 PAGE 01	160			87.9			77.9		75.0									32.9		23.1				
910	PROFERCE PAGE	150	94.0	91.7	89.3	000	81.7	79.0		76.1	73.1	69.9	66.3	62.4	58.1	53.2	47.3	40.7	34.0		25.3	16.7	8.1		
	42	140	92.6	93.3	6.06	0 0	83.1	80.4		17.6	14.5	71.3	67.8	63.9	29.6	24.7	49.3	42.2	35.3		56.6	15,5	4.4		
	3 F HG	130	1001	98.1	95.7	300	87.7	84.7		81.6	78.1	24.6	71.2	67.2	65.8	58.1	52.8	46.7	40.5		34.2	27.2	17.1	7.1	
	= 59 =29.92 = 70 -2 08	120	100.4		95.7	33.6	87.7	84.7		81.5	78.0	74.3	70.8	66.7	62.7	58.1	55.9	47.0	41.7		35.6	29.1	20.1	8.1	
	00	110			94.5	20.08	86.5	83.5		80.4	77.4	74.1	9.07	2.99	62.4	91.6	55.3	45.8	38.6		32.4	24.3	15.2	6.1	
	METEOROLOGY B TEMP BAR PRES REL HUMI DELTA N =	(DEGREES) 90 100	4.66	97.0	94.6	100	86.8	84.0		81.0	77.9	74.7	71.2	67.4	63.1	58.4	53.0	46.5	39.4		33.5	24.5	15.6	9.9	
	2222		97.5	95.2	92.9	0.00	85.6	95.9		80.1	77.1	73.9	70.5	1.99	65.5	57.8	55.5	46.1	39.0		32.1	22.1	12.3	5.6	
		ANGLE 80	96.7	4.46	92.0	60.0	84.2	81.4		78.4	75.2	71.9	68.3	64.3	60.0	59.5	6.64	42.8	37.5		30.6	21.9	11.6	1.3	
SOURCE	, 0-2	0.2	98.2	96.0	93.7	100	86.4	83.7		81.0	78.0	74.9	71.4	67.7	63.6	59.0	53.7	48.0	41.0		32.3	13.6	7.0		
FROM S	8% RPM ENGINE 105 + 0	0,0	97.9	95.0	93.3		85.8	83.1		80.3	77.3	74.0	9.02	9.99	62.7	58.0	52.8	47.1	6.04		33.4	22.0	10.4		
	PERATION: 13LE, 68% RPH, U-; SINGLE ENGINE EST, F-105 +0.208	50	103.2	101.0	98.0	2000	91.1	88.3		45.4	82.2	78.9	75.1	71.0	4.99	61.8	56.6	50.7	43.8		36.3	28.5	16.3	4.2	
PNDB) AND DISTANCE	OPERATIONS IDLE, SIGLE EST. F	9					91.9			96.2	83.0	19.6	15.9	71.8	67.1	62.0	9.99	51.0	44.8		38.6	31.9	23.3	11.6	
- w		30	m	-		2 4	0 0	2		96.5	83.4	80.2	16.8	73.1	69.0	64.5	29.4	53.6	47.5		39.5	29.8	18.0	7.5	
ISE L	_	29	104.7			0 - 10		90.1		4.18	4.40	81.2	77.9	74.2	70.1	65.0	9.00	54.8	48.7		411.9	34.3	19.5	6.1	
CEIVED NOISE LA FUNCTION OF	SUBJECTS AIRCRAFT P-13 NUP	3	106.0	103.6			93.9	91.3		88.5	85.5	82.4	73.0	75.3	71.2	2.09	9.19	56.0	6.64		45.2	35.2	23.5	10.7	
PERCEI AS A F	E SOURCE/SUBJ U-2 AIR ENG. J75-P-13 GRJUND RUNUP	7	105.1		100.6	200	93.2	90.5		87.7	84.6	81.4	78.6	74.3	73.3	65.8	60.7	55.1	49.1		41.1	35.3	23.4	12.5	1.6
TABLES	NOISE SOURCE/SUBJECT: U-2 AIRCRAF ENG. J75-P-13 GROUND RUNUP	DISTANCE (FEET)	200		315		930	020		1030	1250	1600	2000	2500	3150	0,74	5330	6330	8400		10000	12500	16000	20000	25000

	4	FUNCTION OF	N OF	w	AND DI	DISTANCE	FROM S	SOURCE) OMEGA		A 8.2 76-518-001	
2	J75-P	/SUBJECT: AIRCRAF -P-13 UNUP	- 5	•	OPER	OPERATIONS IDLE, E SINGLE EST. F-	RATION: IDLE: 68% RPH, SINGLE ENGINE EST. F-105 +0.2	.208			METEOROLOGY: TEMP BAR PRES REL HUMI	PRESS HUMID	= 59.92 = 70 = 70	2 F 2 F 4 H 5 K	(2)	PROPERTY PAGE	RAFT RATION FILE W		DE 518) DE 01013) CON A)
DISTANCE (FEET)	0	97	20	30	9,	50	6.0	7.0	ANGL		1055REES)	110	120	130	140	150	160	170	180
200	106.4		136.7	106.	105.			100.1	4.76		100.8	-	102.0	102.0	96.8	95.3	92.5	88.9	78.6
250	104.1	165.5	104.5		103.6	102.0	6.96	6.76	95.1	96.6	38.5	98.	1.66	2.66	6.46	93.0	90.2	86.6	76.3
315	101.8	103.1	102.2	101	101			92.0	92.7		96.1	35	97.3	97.3	92.1	90.0	87.9	84.3	74.0
200	9.20	946.3	97.0	6.0	0 0			95.3	2006		93.0	900	94.0	94.0	86.0	85.6	83.4	79.5	69.1
630	94.5		94.8	946	93.			88.3	35.0	86.9	88.2	87.9	89.3	89.3	84.3	83.0	80.5	77.0	66.5
800	91.8		92.1	91.				95.6	82.1	84.3	4.50	6 . 48	86.3	86.3	81.6	80.3	17.9	74.3	63.6
	000			9			,					•							
1250	85.9	87.4	86.4		8 4.5	83.3	78.5	79.0	76.0	78.4	10.4	78.7	73.6	79.5	75.7	74.4	72.0	68.4	57.4
1600	82.7		83.2	62.			75.3	76.8	72.6	75.2	76.2	75.5	75.8	76.2	72.5	71.2		65.2	53.9
2000	79.2		19.9	78.			71.9	73.3	69.1	71.8	72.6	72.3	72.4	72.8	69.0	9.79		61.6	49.8
2500	75.6		76.2	75.			68.1	9.69	65.0	68.0	68.8	68.1	68.3	2.89	65.1	63.8	61.4	57.7	44.7
3150	71.5		72.1	70.			63.9	65.69	2.09	63.8	94.5	63.7	64.3	4.49	60.8	29.4	57.1	53.3	39.0
4000	66.8		67.2	-09			59.0	60.5	55.8	58.8	9.69	58.7	99.4	59.3	99.6	2.45	52.3	48.1	32.7
2000	61.5	62.7	01.8	69.			53.5	6.45	6.64	53.3	53.9	53.1	53.9	53.7	50.0	48.1	46.4	41.6	22.5
6330	55.6	1.96 .	55.6	54.			47.0	1.84	43.1	46.7	47.1	46.3	47.7	4.2.4	42.7	41.2	39.7	34.6	11.7
9900	*6.3	53.3	49.1			44.0	41.2	41.4	37.0	39.3	39.7	38.9	45.0	6.04	35.6	34.3	35.9	26.1	•
10000	+1.1		40.9	39.	38.	36.	33.4	32.3	30.6	32.1	33.5	32.4	35.6	34.2	26.6	25.3	23.1	10.5	
12560	33.3	32.2	30.3	29.	31.	28.	22.6	19.6	21.9	22.1	24.5	24.3	29.1	27.2	15.5	16.7	13.3		
16000	23.4		18.2		23.3	16.3	10.4	7.0	11.6	12.3	15.6	15.2	20.1	17.1	* *	8.1	3.5		
22000	12.5		6.1	7.	11.	*			1.3	5.6	6.8	6.1	8.1	7.1					
25060	1.6																		

(TABLE:	A-WEI	A-WEIGHTED OVERALL	VERALL	5	UND LEVEL	(08A)) IDEN		LIONS	
	AS A	AS A FUNCTION OF ANGL	N OF A	. I	AND DISTANCE		FROM S	SOURCE								TEST	76-51	18-001	
m J Z Z	J75-P-	JBJECT 8 AIRCRAF -13 JP			OPERATION IDLE, SINGLE EST. F		68% RPM, E ENGINE -105 +0.	, U-2		2222	METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	PRESS HUMID	= 59 =29.92 = 70	N N HG		A PROPERTY OF THE PROPERTY OF		CODE CODE RSION	518 01013
(DISTANCE	0	10	20	30	3	5.0	6.0	7.0	ANGLE		(DEGREES) 90 100	110	120	130	140	150	160	170	180
200	92.9	93.6	92.3	91.3	9006	89.5	85.3	65.0	42.5	83.8	85.0	84.3	85.1	85.4	81.4	40.4	79.5	75.2	65.2
(250	90.7		90.1	89.1	88.3	87.2	83.1	82.8	80.3	81.6	82.8	82.1	82.9	83.2	79.2	78.2	77.4	73.1	63.0
(315	88.4		87.9	86.9	80.0	85.0	80.9	80.6	78.0	19.4	9.08	79.8	80.6	80.9	16.9	76.0	75.2	70.9	60.8
00%	86.2		85.6	84.6	83.7	82.6	78.7	78.4	75.8	77.2	78.2	77.5	78.3	78.6	74.7	73.7	72.9		58.6
005	83.8	84.5	83.2	82.2	81.2	80.2	76.3	76.1	73.4	74.8	15.9	75.1	75.9	75.3	72.3	71.4	9.02		56.3
630	81.4	82.1	80.8	19.8	78.7	17.8	74.0	73.7	71.3	72.5	73.4	72.7	73.5	73.8	6.69	0.69	68.2	64.0	53.9
008	74.9	5.62	78.3	2.11	70.1	75.5	71.5	71.2	68.5	10.07	50.0	70.1	71.0	71.3	4.19	66.5	65.8	61.5	51.4
								,			,	1							
1000	16.3		12.0	14.6	73.4	72.5	68.9	1.69	99	67.5	68.3	67.5	68.4	68.8	6.49	0 ** 0	63.2	29.0	48.8
1650	13.5		12.9	71.8	5.0	1.69	66.3	000	63.3	24.8	200	64.8	1.59	66.1	62.2		9.09	26.4	7.04
1600	9.07	7.5	0.0	69.0	6.79	2.99	63.5	63.2	60.5	62.0	62.7	62.0	63.0	63.3	29.4	58.5	57.8	53.6	43.3
0002	06.50	09.1	900	65.8	***	63.6	60.2	69.3	91.6	59.1	29.1	29.0	60.1	60.3	26.4	25.6	24.8	2005	40.3
25.00	2.49	2.40	63.5	4.29	91.0	2.00	27.4	57.1	24.5	55.8	26.5	22.1	57.0	57.1	53.5	25.4	51.7	47.5	37.1
3150	60.5	61.1	29.8	28.7	27.4	26.6	53.9	53.5	51.1	55.3	55.9	22.1	53.6	53.6	1.64	0.64	48.3	44.1	33.6
0004	56.5		25.7	24.7	53.5	52.7	50.1	49.7	47.3	18.4	49.1	48.1	1.64	1.64	45.9	45.2	44.5	4.04	29.8
2000	25.6		21.5	2009	49.3	40.5	45.9	45.3	43.1	0.44	44.8	43.7	45.5	42.4	41.7	41.1	40.4	36.3	55.6
6370	47.0		46.1	45.2	44.6	43.5	41.2	40.2	38.5	39.3	40.1	39.1	41.0	40.8	37.1	36.5	35.9	31.7	50.9
0008	41.0	45.2	40.0	40.1	40.1	38.7	36.5	35.5	34.4	34.7	35.7	34.8	37.1	36.5	35.5	31.7	31.1	56.8	16.1
	76.7		26 0	31. 6	200			, ,,		000	, ,,			, , ,					
0000			0.00	0	2000	0000	21.0	200	6 6 2	6.63	110	* * * * * * * * * * * * * * * * * * * *	26.3	1.75	0.12	6007	6200	****	10.3
16200	30.0		73.0	6.87	20.0	7.97	6.67	6.47	7.67	6.47	7.97	199	58.5	4.17	55.5	50.8	20.3	15.6	2.4
(16000	24.8		23.0	23.1	54.5	55.5	20.1	19.8	20.1	19.7	21.1	50.9	53.6	55.4	17.2	15.1	14.3	4.6	
50000	18.9	14.5	17.1	17.2	18.7	16.4	14.2	13.0	14.6	14.4	15.7	15.8	18.4	17.3	11.8	9.5	8.2	3.1	
1 25000	12.7		10.9	10.9	15.5	10.0	6.7	7.2	8.7	8.8	10.0	10.3	15.7	11.8	2.9	3.4	2.1		
_																			
)	-		-															-	-

	AS A	A FUNCTION	OF	ANGLE A	AND DIS	DISTANCE	FROM S	SOURCE								TEST	76-518-001	18-001	
OIS	E SOURCE/SUBJECT: U-2 AIRCRAFT ENG. J75-P-13 GROUND RUNUP	BJECTE IRCRAFI 13			OPERATIONS IDLE, SINGLE	TION: OLE, 6 INGLE ST. F.	RATION: IDLE, 68% XPM, SINGLE ENGINE EST, F-115 +0.2	, U-2		22000	METEOROLOGY BEEN BAR PRES	PRESS HUMID	= 59.92 = 70 = 70	9 F 2 IN HG 2 %	(2)	AIRCRAF OPERATI PROFILE 27 APR	RUN DI AIRCRAFT OPERATION PROFILE VE 27 APR 76	CODE CODE ERSION	DE 516)
DISTANCE (FEET)	,	7.0	20	36	3	50	0.9	2	ANGL	:	(DEGREES) 90 100	110	120	130	140	150	160	170	180
200	94.1	95.5	94.3	93.2	92.0	90.5	86.6	86.9	83.2	85.1	86.5	1.58	86.7	87.0	82.6	81.7	19.5	76.4	65.5
250	91.9	93.3	92.1	91.0	89.8	88.3	84.4	84.7	81.0	83.0	84.3	83.5	84.5	84.8	90.4	19.5	77.4	74.2	63.0
315	89.7	91.0	89.8	99.7	87.5	86.0	82.2	85.5	78.8	80.7	82.0	81.2	82.2	82.5	78.1	77.3	75.2	72.0	60.8
904	87.4	89.7	9.29	96.4	85.1	83.7	80.0	80.3	16.5	78.5	19.1	78.9	6.61	80.2	75.8	75.1	72.9	69.8	58.6
200	45.1	86.4	95.5	84.1	82.7	81.3	77.6	78.0	74.1	2002	77.3	5.92	27.5	27.8	73.5	72.7	10.6	61.5	26.
530	82.7	63.9	85.8	81.7	80.5	78.8	75.3	15.0	71.7	73.8	6.47	74.1	75.1	15.4	71.1	70.3	68.2	65.1	53.9
900	80.5	81.4	80.3	79.1	77.5	76.2	72.8	73.1	69.5	71.3	72.3	71.5	12.6	72.9	9.89	64.49	65.8	62.7	51.4
1000	77.5	78.7	77.0		74.8	73.6	70.2	73.6	66.7	68.8	2.69	689	79.0		66.1	65.3	63.2	60.1	48.8
1250	7 ** 8	76.0	6.42		71.9	7007	9.19	61.9	64.0	66.1	67.0	66.2	67.3		63.4	62.6	9.09	57.5	46.
1600	71.9	73.0	71.9	70.8	68.8	67.8	8.49		61.2	63.3	64.1	63.3	64.5		9.09	59.8	57.8	24.7	43.
2000	64.8	6.69	68.8		65.8	2.49	61.8	62.2	58.4	4.09	61.2	60.4	61.7		57.6	56.9	24.8	51.8	40.3
2500	65.5	9.09	65.5		65.5	61.3	58.6	29.0	55.5	57.2	57.9	57.1	58.5		24.4	53.7	51.7	48.7	37.1
3150	61.8	6.59	61.8	9.09	59.9	57.7	55.5	55.4	51.8	53.6	54.4	53.5	55.1		6.05	50.3	48.3	45.3	33.6
4000	57.5	58.5	57.3	50.5	24.1	53.5	51.1	51.5	47.8	4.64	50.5	7.64	51.0	51.0	6.94	46.3	44.5	41.3	29.8
5000	52.8	53.7	75.4	51.3	50.1	48.9	46.7	46.5	43.5	44.8	45.6	44.6	40.4		45.4	41.9	40.4	36.9	25.6
6300	47.6	48.3	6.04		45.2	7.44	41.6	41.3	38.8	39.8	40.7	39.0	41.6		37.6	37.0	35.9	32.1	20.
9000	45.1	45.6	*1.2	40.5	40.4	38.9	36.7	35.9	34.5	35.0	36.0	35.1	37.4		32.7	32.0	31.1	27.0	16.1
10000	36.3	36.5	35.0	•	35.2	33.6	31.3	30.1	29.9	29.9	31.1	30.4	32.9	32.1	27.6	26.5	25.9	21.4	10.9
12500	30.6	30.5	29.0		33.0	28.2	55.9	24.5	25.5	24.9	26.2	25.7	28.5	27.4	22.5	20.9	20.3	15.6	5.4
16000	24.8	24.5	23.0	23.1	24.5	22.5	20.1	18.8	20.1	19.7	21.1	20.9	23.6	22.4	17.2	15.1	14.3	4.6	
20000	18.9	18.5	17.1		18.7	15.4	14.2	13.0	14.6	14.4	15.7	15.8	18.4	17.3	11.8	9.5	8.2	3.1	
	-																		

	DISTANCE = 25	250 FEET									TEST 7	T 76-51	-
NOISE SOUR	SOURCE/SUBJECT: U-2 AIKCRAFT ENG. J75-P-13 GROUND RUNUP		(OPERATIONS (IDLE, (SINGLE (EST, F	ATION: IDLE, 68% RPM, U- SINGLE ENGINE EST. F-105 +0.208	N. U-2		METEOROLOGY : TEMP BAR PRES REL HUMI DELTA N =	PRESS HUMID	= 59 F = 29.92 IN = 70 %	I	PROFILE PAGE	RAHO	CODE 518 CODE 01013 RSION A
			P=PNLT			A=AL				I=ALT			
9										ΑΤ		9	
10						•				•		•	
50										. A		۵	
30		.:		•	•	•		•		.A.T.		•	
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	1/3 OCTAVE DISTANCE =	BAND 250	FEET	330KE	רב אבר	600										MEGA EST 7	8 - 2 5 - 51	8-001	
NOISE SOURCE/SUBJECT U-2 AIRCRAFT ENG. J75-P-13 GROUND RUNUP	/SUBJECI AIRCRAF -13			OPER	RATION NGINE INGLE ST. F-	RUNUP, ENGINE	85% 0.208	2 A P M		I IU W	TEOROLOGY TEMP BAR PRESS REL HUMID	678 SS =2 ID =	9.92 2.08	H X	1	AIRCRAI OPERATI PROFIL 27 APR	24 KB	CODE 5 CODE 0	518 01018 A
BAND CENTER FREG (HZ)	•	97	20	30	9	20	09	Z D ANG	NGLE (DEG 2E	ES)	110	120	130	0 7 1	150	160	170	180
9.0	72	11	73	14	14	92	92	11	18	11	8.0	81	82	90	95	93	68	81	98
	12	14	11	11	11	11	11	62	80	80	83	83	86	91	96	16	88	92	8
96	52	92	92	11	82	62	62	80	82	82	83	99	88	95	26	16	98	73	82
100	92	80	91	80	80	91	81	82	83	85	98	87	69	34	66	96	98	92	81
125	8.0	80	82	82	81	83	83	84	85	96	68	88	90	93	66	96	83	73	11
160	10	85	10	85	63	83	82	85	87	88	06	90	92	16	96	93	80	20	12
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904	81	83	98	83	98	85	87	87	88	87	06	06	16	95	9.0	80	7.1	66	99
200	80	82	48	82	96	* 8	18	87	87	99	90	06	95	9.0	68	78	99	28	19
630	92	11	62	7.6	80	8.0	83	82	94	94	87	18	88	87	85	22	69	58	99
800	14	8.2	62	80	81	8.3	83	82	+ 20	83	98	98	87	89	84	52	79	24	25
1000	89	11	73	11	92	52	92	73	11	92	62	80	81	82	62	72	63	51	28
1250	7.7	69	20	15	73	73	73	7.1	12	7.1	92	11	80	7.8	92	69	9	20	53
1600	86	83	82	81	81	80	62	11	11	75	90	62	81	81	15	99	63	53	61
2000	46	95	95	88	16	90	94	83	82	82	82	62	62	81	15	73	69	58	26
2500	98	88	85	85	85	95	83	90	91	82	84	80	80	14	72	99	29	24	25
3150	62	90	8.0	94	81	78	62	22	11	11	62	11	62	72	69	00	63	20	55
4000	87	82		88	83	81	83	11	80	62	80	80	80	73	72	63	29	24	53
2000	62	80	62	81	73	7.8	82	14	75	92	7.8	62	11	72	68	99	61	20	21
6300	62	11		62	7.8	92	11	14	92	7.8	62	62	11	72	68	58	58	64	20
9000	9.2	92		18	11	1+	16	12	75	15	92	16	1.4	10	99	25	58	8.4	64
10000	73	11		73	22	69	7.1	99	69	20	72	12	69	69	61	24	24	45	94
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XXX = EXTRAPOLATED OR INTERPOLATED SPL

SOURCE/SUBJECT: (OPERATION:				•	TEST 76-51	4-001
ANGE 111.6 111.7 112.1 111.9 111.1 109.8 107.4 108.5 111.0 109.4 107.4 108.5 111.0 109.4 107.4 108.5 111.0 109.4 107.4 108.5 1106.4 109.4 107.4 109.8 107.4 106.5 106.3 107.4 108.5 107.5 107.4 106.6 107.1 107.2 106.3 106.4 107.4 107.9 107.4 106.6 107.1 107.2 101.0 106.4 107.4 107.5 107.4 107.4 106.6 107.5 107.5 107.4 106.6 107.5 107.5 107.4 106.6 107.5 107.5 107.4 106.6 107.5 107.2 101.0 107.4 107.3 107.5 107.4 107.3 107.5 107.5 107.4 107.3 107.5 107.4 107.5 107.4 107.3 107.3 107.4 107.3 107.4 107.3 107.4 107.4 107.4 107.4 107.4 107.4 107.4 107.4 107.4 107.5 107.4 107.5 107.4 107.5 107.4 107.5 107.4 107.5 107.4 107.5 107.4 107.5 107.4 107.5 107.4 107.5 107.4 107.5 107.4	RP#	METEOROLOGY: TEMP BAR PRESS REL HUMIO DELTA N =	= 59 F S = 29.92 IN HG D = 70 %	1	AIRCRAFT CO OPERATION CO PROFILE VERS 27 APR 76 PAGE D2	
113.2 111.6 111.7 112.1 111.9 111.1 1109.8 107.4 1108.5 1111.0 1109.4 1109.5 1109.8 1107.5 1105.2 1106.3 1108.7 1108.9 1107.5 1107.2 1108.3 1108.7 1108.9 1107.5 1107.2 1108.3 1108.4 1107.5 1107.5 1107.2 1108.1 1108.3 1107.5 1107.2 1108.1 1108.3 1107.5 1107.2 1108.1 1108.3 1102.6 1101.0 1108.0 11	ANGLE (D	(DESREES) 30 100 110	123 130	140 150	160	170 180
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67.4 66.2 66.6 64.6 66.7 65.9 64.4 63.5 61.5 62.5 64.4 63.5 61.7 61.0 59.2 64.4 63.5 61.7 61.0 59.2 64.4 63.5 61.1 53.7 54.4 52.3 54.5 53.9 54.9 54.1 47.4 46.4 49.4 48.1 51.2 49.6 57.4 39.7 41.4 41.0 43.4 42.0 45.0 44.2 31.3 32.3 34.3 32.9 36.0 35.1 36.4 37.8 37.8 27.5 25.2 23.6 28.1 37.3 37.3 37.3		76.6 76.5	78.0 77.3	76.4 69.6	9 9 9	46.5 53.8
55.1 53.7 54.4 52.3 54.5 53.9 54.9 54.1 55.1 55.1 53.7 54.4 52.3 54.5 53.9 54.9 54.1 55.1 53.4 42.0 48.1 51.2 49.6 47.9 46.4 49.4 48.1 51.2 49.6 57.4 33.7 34.3 32.3 34.3 32.3 35.2 23.6 23.1 36.4 37.3 37.3 37.3 37.3 27.5 25.2 23.6 28.1 37.3 37.3 37.3	03.0	16.1	68.7 68.1	0 0		
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47.4 46.4 47.9 46.4 49.4 48.0 50.2 43.6 37.4 39.7 41.4 40.0 43.4 42.0 45.0 44.2 30.3 32.9 36.0 35.1 36.4 37.8 20.5 24.0 27.5 25.2 23.6 28.1 32.0 31.3	.1 55.2	58.0	29.7 59.0	•		
37.4 39.7 41.4 40.0 43.4 42.0 45.0 44.2 30.3 32.3 34.3 32.9 36.6 35.1 34.4 37.8 20.5 24.4 27.5 25.2 29.6 28.1 32.0 31.3	50.7	53.5	55.4 54.7	80	-	3.3 1
30.3 32.3 34.3 32.9 36.6 35.1 36.4 37.8 20.5 24.6 27.5 25.2 29.6 28.1 32.4 31.3	2 45.5	48.7	50.7 50.1	2	6 18.8	11.2
20.5 24.4 27.5 25.2 29.6 28.1 32.4 31.3	8 39.3	42.8	40.4 40.54	2	5	
	2	36.0 36.9	38.8 37.9	37.6 23.	4	
14.3 16.6 13.3 19.7 16.4 23.1 21.6	6 23.4	28.0	30.7 30.0	9	3	

NOISE SOURCE/SUBJECT: U-2 ENG. J75-P-13 GROUND RUNUP SECTION 110-4 114-3 116 250 114-2 111-8 116 250 114-2 111-8 116 315 111-9 109-5 106 400 110-9 109-5 106 530 110-9 109-5 110 530 110-9 109-5 110 110-9 99-6 99-5 110 110-9 99-6 99-5 110 1250 96-6 99-5 10 1250 96-6 99-6 99-6 99-6 99-6 99-6 99-6 99-	20 30 112.2 1114.9 1109.9 109.9 107.0 109.9 105.2 104.3 105.2 104.3	0 PER 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		RUNUP, 65% RENGINE, 0-2 105 + 0-2 3 8 111.5 109.0 111.5 109.0 1104.3 102.2 1104.3 1	1 2 1 23225	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	METEOR METEOR BAA BELTA BE	METEOROLOGY: TEMP BAR PRESS REL HUMIU DELTA N = 110 110 110 110 110 110 110 110 110 110	SS = 29.92 I.O = 70 .2 DB 120 120 110.8 11	130 x 130 1111.9		7~~~~ 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	AIRCRAFT CODE S AIRCRAFT CODE S PROFILE VERSION 27 APR 76 PAGE E2 50 160 170	CODE 5 CODE 0 RSION 170	518 01018 A A
110.0 111.0 111.0 111.0 111.0 111.0 110.0		1114 11146 11169 1107 1105 107 99.8			1 23233	i m	1 10			130 111.9 110.7 107.6	•	150 108. 106.	160	170	180
1100-4 114-5 1110-9 1111-8 1101-9 1111-8 1101-9 1101-9 1101-9 1101-1 1101-9 1101-1 101-9 99-5 99-6 99-6 92-8 90-6 89-3 86-9		114.3 112.3 109.6 107.5 105.0 99.6								111.9 109.7		108. 106.			
114.2 111.8 111.9 1109.5 1107.6 1107.1 101.9 102.1 101.9 99.5 99.0 99.5 92.8 90.6 89.3 86.9		112.1 109.8 107.5 105.0 102.5								109.7		106.			93.5
101.9 109.5 100.1		107.5 105.0 102.5 99.8								105.4		104			91.3
107-1 104-7 101-9 102-1 101-9 99-5 99-6 96-6 96-0 93-6 89-3 86-9		105.0 102.5 99.8									105.4		94.8	82.6	86.5
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92.8 90.4 89.3 86.9 85.4 83.0	94.2 92.2			30.2 8	68.8 8	89. 3 88		90.	2	92.9	92.3	.68	78.1	65.7	72.1
85.4 83.0								87.	2			85.	14.7	62.3	4.89
85.4 83.0						6	32.0 05	84.	2			81.	71.1	58.5	2.49
24 4 70 8	83.6 81.	3 83.4				1		80.	9	83.1	82.	76.	6 • 9 9		60.5
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75.7 73.5		73.9				70.3 69		72.	0	74.	72.	65	56.3		20.0
9.29		9 68.1				2		67.	٧,	99		900	1.64		43.3
55.7 54.2	54.9 52.	55.0	54.4	55.2 5	54.4 5	55.4 55	55.7 58	58.2 58.	0 59.7	59.3	58.	6000	36.4	12.8	28.3
4.7.4 46.4	47.9 46.4					1		53.5 53.	8				28.1	3.3	19.9
37.4 39.7		43.4	45.0	45.0 4	44.2 4	2	46.0 48	.64	8 50.7	50.1	49.2	38.6	18.8		11.2
30.3 32.3						2		+3.	-			32.	6.7		5.4
	27.5 25.2					•			6						
7.6 14.0						*			2			12.			

		ONCITO	P		AND DISTANCE	STANCE	FRON SC	SOURCE) TEST	TEST 76-518-001	18-001	
NOISE SOURCE/SUBJECT U-2 AIRCRA ENG. J75-P-13 GROUND RUNUP	NOISE SOURCE/SUBJECT: U-2 AIRCRAFT ENG. J75-P-13 GROUND RUNUP	BJECTS IRCRAF 13			OPER	OPERATIONS ENGINE SINGLE EST. F.	RUNUP, 85% K ENGINE, U-2 -105 +0.204	85% R 0-2	K P R	2000	HETEOROLOGY BAR PRES	PRESS HUMID	= 59 = 29.92 = 70	R H X	Ş.	PRO OPE	RUN 02 ARCRATI CODE OPERATION CODE PROFILE VERSION 27 APR 76 PAGE F2	7	518 01018
DISTANCE (FEET)	3	10	2	30	3	50	3 0	7.0	ANGLE 80	26	(DEGREES) 90 100	110	120	130	140	150	160	170	180
200	99.8	98.0	97.6	97.3	97.8	1.96	95.4	93.6	7.46	94.8	96.9	96.5	97.6	97.3	95.9	89.6	80.9	69.8	74.
250	97.6	95.8	95.5	95.0	95.6	94.5	93.2	91.4	92.5	92.7	94.6	94.4	95.5	95.2	93.8	87.6	78.8	67.7	72.
315	95.3	93.5	93.2	92.7	93.3	92.3	91.0	89.3	4.06	90.5	95.6	92.3	93.4	93.1	91.0	85.5	16.6	69.5	70.6
90%	93.6	91.2	91.3	90.3	91.0	90.06	1.88	87.1	88.2	88.3	4.06	90.1	91.2	91.0	1.68	83.5	74.4	63.4	68.
500	9006	000	80.0	87.8	88.7	87.7	86.4	84.8	85.9	86.0	88.2	87.9	89.1	88.9	87.5	81.3	72.2	61.1	99
630	80.1	80.4	86.2	85.3	86.3	85.3	34.0	82.5	83.6	83.7	85.9	92.6	86.8	86.7	85.3	19.0	69.8	58.8	9
8 30	95.6	03.8	83.7	85.6	83.7	82.0	97.6	80.2	81.2	81.3	83.5	63.3	94.6	84.4	83.0	5.92	4.19	56.3	61.
1000	82.9	81.1	81.0	19.8	81.1		79.0	77.8	78.8	78.9	81.2	80.9	82.2	82.1	80.6	73.9	64.8	53.7	59.
1250	9.00	79.3	78.3	76.8	78.3	77.4	76.4	75.3	76.3	76.4	78.7	78.5	19.8	19.67	78.0	71.1	62.1	51.0	56.
1500	77.0	75.3	72.3	73.7	75.4		73.7	72.7	73.7	73.8	76.1	76.0	77.3	77.1	75.4	68.2	59.5	48.1	53.
2000	73.8	72.1	72.2	73.5	72.4	71.5	6.02	70.0	71.0	71.1	73.5	73.4	74.7	74.5	72.7	65.0	56.2	45.1	51.
2500	70.2	69.5	63.0	67.0	69.0		6.79	67.0	68.0	68.1	20.5	70.4	71.8	71.6	9.69	61.5	52.8	41.7	47.
3150	66.3	9.49	6.49	63.2	05.2		9.49	63.5	9.49	2.49	67.1	67.1	69.5	68.3	66.1	57.7	49.1	38.1	44.2
4000	61.9	60.3	60.7	59.1	61.1		9.09	2.65	6.09	61.0	63.3	63.4	64.8	9.49	62.2	53.5	45.0	34.0	*04
5030	57.0	55.4	6.55	54.5	56.5	55.6	56.3	55.4	9.95	56.7	59.1	59.5	9.09	60.5	58.0	49.2	40.6	29.7	35.
6300	51.4	53.1	50.6	1.64	51.5		51.8	50.8	52.2	52.3	24.7	54.8	56.3	56.1	53.5	44.7	36.0	25.1	31.
8000	45.5	6.44	40.0	45.2	47.1		48.1	47.1	48.5	48.7	51.0	51.2	52.7	52.4	50.0	41.3	32.3	21.4	27.
10000	39.3	39.9	41.3	9.04	45.6	41.0	0 - ++	43.2	44.5	44.8	47.1	47.3	48.7	48.4	46.2	37.7	28.5	17.7	54.
12500	33.5	35.0	36.6	35.8	38.1		39.7	39.0	40.2	46.5	45.8	43.0	44.5	0.44	42.1	34.0	24.6	13.8	20.4
16000	28.1	30.1	31.0	30.8	33.3		34.9	34.3	35.4	35.9	38.1	38.2	39.7	39.5	37.7	30.3	20.6	9.8	16.4
26000	22.8	24.8	26.7	55.4	23.0		29.6	29.1	30.1	30.6	32.9	33.0	34.5	34.0	33.0	26.7	16.5	5.9	12.4
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NOISE SOU		AS A FUNCTION OF		ANGLE A	AND DIS	DISTANCE	FROM S	SOURCE) ONE	OMEGA 8.2 TEST 76-518-001	18-001	
GROUN	E SOURCE/SUB U-2 AI ENG. J75-P-1 GROUND RUNUP	E SOURCE/SUBJECT: U-2 AIRCRAFT ENG. J75-P-13 GROUND RUNUP	_ =		OPER	RATIONS ENGINE SINGLE EST. F	RUNUP, ENGINE	85% U-2 208	a a	2222	METEOROLOGY: TEMP BAR PRESS REL HUMIC	PRESS HUMID	= 59.92 = 70 = 70	9 F 2 IN HG 0 %	:0	PROPERTY AND PROPE	7 5.0	CODE CODE RS ION	518 01018
DISTANCE	•	97	20	30	0,	50	0.9	7.0	ANGLE		(DEGREES)	110	120	130	140	150	160	170	180
	102.9	100.3	100.3	99.3	1001			95.1	95.8	94.9	97.9	96.5	97.6	7.86	97.2	91.6	82.7	71.2	76.8
	100.7		98.1	97.1	98.0	97.0	94.9	93.0	93.6	92.7	95.8	4.46	95.5	96.5	95.2	89.6	80.6	69.1	74.7
4.00	96.2	93.5	93.6	92.4	93.4			88.6	89.2	88.3	31.4	90.1	93.4	92.4	93.1	85.4	76.2	64.7	70.5
200	93.8		91.3	6.68	91.1			4.98	67.3	86.0	89.2	87.9	89.1	90.3	88.9	83.3	74.0	65.5	68.4
630	91.3		88.8	87.3	88.6			84.1	94.0	83.7	66.9	85.6	86.8	88.1	9.98	80.9	71.6	60.1	66.1
908	8.89	86.2	86.3	9 ** 9	86.1			61.8	82.3	81.3	84.6	83.3	84.6	85.8	84.3	78.5	69.5	27.1	63.8
1000	86.1	63.5	83.7	81.0	83.5		80.7	79.3	79.9	6.92	82.2	80.9	82.2	83.5	81.9	75.9	9.99	55.1	61.3
1250	83.2	80.0	80.9	78.9	80.7		78.1	76.8	77.3	76.4	79.7	78.5	19.8	81.1	19.4	73.1	63.9	52.4	58.7
1600	80.2	17.6	78.0	15.8	77.8		15.4	74.3	74.7	73.8	77.1	76.0	77.3	78.5	16.8	70.1	61.0	49.5	56.0
2000	77.0	74.4	14.9	72.6	74.7		72.6	71.6	72.1	71.1	5 4.2	73.4	74.7	76.0	74.1	67.0	57.9	46.5	53.0
2500	73.4	70.9	71.4	69.1	71.4		69.5	69.5	69.0	68.1	71.5	10.4	71.8	73.0	71.0	63.5	24.6	43.1	49.8
3150	69.5	67.0	67.6	65.3	67.6		66.1	65.1	2.59	64.7	08.1	67.1	68.5	2.69	67.5	29.1	50.9	39.5	46.3
40.30	04.5	95.5	62.8	69.7	63.0	62.2	61.9	6.09	2.19	61.0	64.2	63.4	64.8	2.59	63.3	55.1	46.5	35.2	41.9
2000	59.8	26.8	51.5	55.9	57.9		57.3	56.3	57.3	299	28.1	29.5	9.09	61.4	58.8	20.4	41.7	30.5	37.1
6300	55.7	51.0	51.8	50.2	55.5		55.5	51.4	52.6	52.3	55.1	54.8	56.3	26.7	54.1	45.5	36.7	55.6	32.2
9550	40.1	42.4	46.5	45.6	47.6		48.4	47.5	40.7	48.7	51.2	51.2	25.7	52.7	50.3	41.7	32.7	21.7	28.3
10000	39.3	39.9	41.3	9.04	42.6		44.0	43.2	44.5	44.8	47.1	47.3	48.7	48.4	46.2	37.7	28.5	17.7	24.2
12500	33.5	35.0	36.6	35.8	38.1		39.7	39.0	49.2	46.5	45.8	43.0	44.5	44.0	42.1	34.0	54.6	13.8	20.4
16000	28.1	30.1	31.8	30.8	33.3	32.1	34.9	34.3	35.4	35.9	38.1	38.2	39.7	39.5	37.7	30.3	20.6	9.6	16.4
20000	22.8	24.8	20.7	55.4	28.0		59.6	29.1	30.1	30.08	32.9	33.0	34.5	34.0	33.0	26.7	16.5	6.5	12.4
25,00	17.2	19.1	21.0	10.5	23		27 7												

	DISTANCE = 250	O FEET) OMEGA 6.2) TEST 76-518-001	8-001
NOISE SOURCE U-2 ENG. JZ	CRAFT		(OPERATION: (ENGINE (SINGLE (EST. F.	RUNCE ENGI	1P, 85% RPM (NE, J-2 +0.208		TEOROL TENE BAR BAR REL TA N	S = 29.92 IN 0 = 70 %	9	AIRCRAFT CODE 5: OPERATION CODE 0: PROFILE VERSION 27 APR 76	CODE 518 CODE 01018 RSION A
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UNGEFSUBJECT: (OPERATION: TEMPONER, 100% RPM) TEMPONERS = 5992 II SINGLE ENGINE, U-2) BAR PRESS = 2992 II SINGLE ENGINE, U-2) BAR PRESS = 2992 II SINGLE ENGINE, U-2) BAR PRESS = 2992 II SINGLE ENGINE, U-2) BAR PRESS = 2992 II SINGLE ENGINE, U-2) BAR PRESS = 2992 II SINGLE ENGINE, U-2) BAR PRESS = 2992 II SINGLE ENGINE, U-2) BAR PRESS = 2992 II II II II II II II II II II II II II		. "	250 F	ÉET												OMEGA 8.2 TEST 76-518-0	8.2 8.2 6-518	3-001	
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OVERALL 132 104 135 105 106 107 109 110 111 112 116 119 121 13	-			-	5 10	10	3	110	111	112	-	119	~	125	128	119	107	46	87

		AS A	AS A FUNCTION OF		ANGLE	AND DI	DISTANCE	FROM	SOURCE) TEST	T 76-518-00	18-001	
ž	NOISE SOURCE/SUBJECT: U-2 AIRCRAFT ENG. J75-P-13 GROUND RUNUP	URCE/S	E/SUBJECTS AIRCRAF 5-P-13 RUNUP	- 5		0 PE	OPERATION: MILITARY POWER, SINGLE ENGINE, J EST. F-105 +0.20	RY POMER, 1002 F ENGINE, J-2 -105 +0.208	ER, 10	SZ RPM		METEOROLOGY B TEMP BAR PRES REL HUMI DELTA N =	OLOGY:	\$ = 29.92 0 = 70 5 0 0 = 70	K H X	9	AIRCRA OPERAT PROFIL 27 APR	AIRCRAFT OPERATION PROFILE VE 27 APR 76	CODE CODE RSION	518 01004 A
-	DISTANCE (FEET)	3	97	26	30	3	5.5	9	7.0	ANGL	1 111	(DEGREES) 90 100	110	120	130	140	150	160	>170	180
	200	1111.4			116.		119.0		123.	154.1		129.	132.0			135.	10	1111.2	101.1	90.9
	315	109.3	111.5	113.2	114.2	115.4	116.8	119.7	121.1	121.8	124.2	126.9	129.7	129.2	131.1		122.4	109.1	99.3	88.7
	004	104.9			169.		112.0		115.	117.2		122				129.	-	104.8	9.46	84.0
	200	102.6			107.		109.5		114.	114.8	117.2	119.				127.	80	102.5	92.3	81.5
	630	100.5	-		104.	105.	106.	110.1	111.	112.3	114.6	117.	120.2	120.2	122.	125.0	*	100.2	89.9	79.1
	900	97.8	63.6	101.7	102.			107.5		109.6	111.9					122.6	00	97.8	87.2	76.6
	1030	95.2	4.76	99.1	.66	-	1111.1	134.7	106.0	136.7		111.8			117.4	120.1	108.1	95.3	84.6	73.9
	1250	95.4			96					103.7		108.		112.	114.7	117.5	105.1	95.4	81.8	71.1
	1606	89.6			93.					100.4		105.		109.	111.9	114.7	102.1	89.4	78.8	68.1
	2000	86.5			90					97.0		102.		106.	109.0	111.8	99.0	86.2	15.6	6.49
	2500	83.2			86.					93.1		98	-	102.	105.2	108.1	95.2	82.2	71.6	60.8
	3150	79.3			83					89.		94		98.	101.0	103.9	90.8	77.8	67.2	56.0
	200	5.5			ė					04.0		6.0			96.3	99.1	86.2	73.2	4.29	50.9
	2000	70.5	72.3	***		75.1	75.6	78.1	78.7	79.7	81.2	9 6	9.80	6.6	91.6	94.2	81.4	68.4	57.3	45.1
	Anno	61.3			6.5					7.0.6	72.0	7 2			82.0	8 F. F.	10.0	50.2	0.10	32.5
			;	3	;		-			:										
7	10000	57.1		61.0	60				65.	06.3	67.7	71.	75.	77.0	78.	81.6	69.0	54.8	42.1	27.0
7	12500	52.4			55.					61.6	63.0		70.	72.6	74.	77.4	6.49	50.1	35.9	17.5
7	16000	47.1		51.4		51.6	51.4	54.9	55.4	50.4	57.9	62.	66.0	67.7	70.	72.8	60.3	44.7	28.5	8.1
~	20000	40.7	43.	45.	4 4					50.7	52.2		60.	62.4	65.	68.1	55.5	38.1	18.6	
0	25000	33.1		37.9	37.				45.	44.1	45.9	50.	54.	56.4	59.	65.8	4.64	30.8	9.6	

		4 04	NOT I DUOL	5	ANGLE	AND DE	DISTANCE	207	SOURCE								200		100-016-01	
ž	NOISE SOURCE/SUBJECT: U-2 AIRCRAFT ENS. J75-P-13 GROUND RUNUP	E SOURCE/SUB U-2 AI ENS. J75-P-1 GROUND RUNUP	URCE/SUBJECT: AIRCRAF J75-P-13 ND RUNUP			OPER	OPERATION: MILITARY POWER, 100% SINGLE ENGINE, U-2 EST. F-105 +0.208	ENGINE	ER, 10(22 RPM		METEOROLOGY TEMP BAR PRE REL HUM DELTA N =	PRESS HUMID	= 59 = 29.92 0 = 70	FHX	£	PROPERCY PAGE	RATI TILE	SODE SSION	518 01004 - A
10	DISTANCE	3	3	28	36	3	9.0	9	7.0	ANGL 80	1	(DEGREES)	110	120	130	140	150	160	>170	×180
	200	111.4			116.4		119.0	123.1		124.1	127.7		133.0	131.3		135.9	10	N	10101	
	550	109.3				115.4	116.8	150.9	122.6	121.8	155.5	127.		129.5				-	0.66	
	315	107.1			111.9	113.1	114	118.7	120.4	119.6	123.3		128	127.0	129.0		m .		6.96	
	2	132.6	105.9		107.2	100.7	109.5	113.9	115.6	114.8	118.5	120.9	123.7	122.5		127.3	115.8	102.5	95.3	81.5
	630	11.		134.1	164.7	105.7	106	111	113.0	112.3	115.9	118.3	121.2	120.2	122			. ~	89.9	
	900	97.8				103.2	104.	108.7	110.4	109.6	113.2	115.7	118.5	117.7	119.				87.2	
	1000	95.2		99.1	4.66	103.5	101.1	105.9	107.5	106.7	110.4	112.8	115.7	115.2	117.4	120.1	108.1	95.3	94.6	73.
	1250	92.4	95.7		96.7	97.0	98.1	102.8	104.5	103.7	107.3	109.8	112.7	112.5	114.7	117.5	105.1	95.4	81.8	71.
	1600	89.6			93.7	9 ** 6	95.1	99.5	101.2	-	104.0	106.	109.7	109.6		114.7	102.1	89.4	78.8	68.
	2000	96.5			2006	91.7	94.0	96.0	97.6	97.	100.4	103.	196.6	105.6	109.	111.8	99.0	86.2	15.6	94.
	2500	83.2		97.0	86.9	280		92.5	93.6	93.	96.4	99.	102.8	102.8		108.1	95.2	82.2	71.6	60.
	3150	79.3	45.5		83.1	84.1	8	88.5	83.5	9.0	91.9	95	98.8	98.9	-	103.9	90.8	17.8	67.2	56.
	0000	5.5			200	2.		200	9 .	*	97.1		7.46	24.5	96	33.1	7.90	13.5	4.70	000
	2006	7007			7.47	13.1		73.0	13.6		95.0	.00	2.60	0.00	91.0	7.00	91.4	99.	27.0	ţ
	9000	61.3	63.	65.3	65.0	62.9	90	69.2	63.9	70.6	72.3	76.	79.9	91.1	82.9	85.5	72.9	59.5	47.3	32.6
-	0000	57.1		61.3	60.5	61.5		64.8	65.3	66.3	67.7		75.5	77.0	78.	81.6	69.0	54.8	42.1	27.
-	12500	52.4	54.5		55.7	56.8	56.9	60.0	60	61.	63.0	67.	70.9	72.6		77.4	6.49	50.1	35.9	17.5
-	16100	47.1		51.4	50.5	51.6		54.9		56.	57.9	62.	999	67.7	70.	72.8	60.3	44.7	28.5	
~	20000	40.7	43.1	45.3	44.3	45.6		49.1			55.2		60.9	62.4		68.1	55.5	38.1	18.6	
~	5000	33.1			37.1	38.3		42.2			45.9		54.3	56.4		62.8	40.64	30.8	8.6	

		FUNCTION OF	N O	SCE NGLE		DISTANCE	FROM S	SOURCE								OMEGA TEST	OMEGA 8.2 TEST 76-518-00	2 18-001	
	ISE SOURCE/SUBJECT: U-2 AIRCRAFT ENG. J75-P-13 GROUND RUNUP	SUBJECTS AIRCRAF P-13 NUP	- =		9	OPERATIONS MILITARY SINGLE EN EST. F-10	ARY POWER, 10 ENGINE, J-2 -105 + 0.208	ER, 1067	X SP		EL ET	EOROLOGY: TEMP BAR PRESS REL HUNID	=29.	59 F 92 IN H 70 %	9	AIRCH OPERCI PROFI	ATION FILE VE	9 9 S	518 01004
UISTANCE (FEET)	7	10	50	36	9,	50	9	7.0	ANGL		(DEGREES)	110	120	130	140	150	160	*170	1180
200	99.2	-	103.6	103	104.9	105.8	107.8	108.7	109.7	1111.8	115.0	118.3	000			110.1	6.96	86.9	76.
315	95.0			99	100.7	101.5	103.5	104.3		107.4	110.6	114.0	114.7			10001	92.8	82.8	72.
400	92.9			97.	98.5	99.3	101.3	102.1	-	105.2		111.8	10			103.9	1.96	80.7	2
900	88.5	94.9	92.9	93.1	94.4	94.8	96.7	97.5	7 10	100.5	103.8	109.5	m -	112.0	114.5	101.7	86.3	76.3	66.3
900	86.2			90.	91.8	95.4	94.3	95.1	-	98.1		104.9			-	97.1	84.1	74.1	9
1000	83.9	4.08	4.00		4.68	90.0	91.9	95.6	93.7	95.6	98.9	102.4	103.5	105.2	107.8	9.46	81.7	711.7	61.
1250	81.5	0.+0	80.		96.9	87.5	4.68	90.1	91.1	93.0	96.4	99.9	-	102.7	105.3	92.0	79.2	69.5	59.
15.00	79.1	81.5	63.		84.4	6.49	96.9	87.4	49.4	90.3	93.7	97.3		100.2	102.7	89.3	16.6	9.99	56.
2000	16.5	78.9	61.		81.8	82.2	84.1	2.49	85.7	87.5	91.0	94.7	-	94.6	10001	86.5	73.8	63.8	53.
3150	70.5	72.9	75.0	74.9	75.7	76.1	77.8	78.1	79.1	81.1	84.7	91.6		94.0	94.50	79.7	67.3	57.3	2000
4000	6.99	4.69	71.		72.1	72.6	74.2	74.4	75.3	77.3	81.0	84.7		87.6	89.7	75.8	63.5	53.5	43.
2000	65.9	65.3	67.5		68.1	68.6	70.0	70.1	71.0	73.1	76.8	80.6		83.4	85.3	71.5	59.3	49.3	39.3
6300	59.6	61.0	03.		63.8	64.3	65.0	9.59	4.09	68.7	72.4	76.2	_	79.0	80.9	67.0	54.8	44.8	34.
90.00	54.9	57.3	59.	6	6 - 6 - 6	60.3	61.9	61.9	62.6	6.49	68.6	72.4	_	15.4	77.3	63.5	51.5	41.2	31.
10000	50.8	53.2		3	55.7	55.9	57.8	57.8	58.6	60.9	64.5	68.2	69.8	71.4	73.4	59.6	47.3	37.3	27.
12500	4004	48.7	50.	50.	51.1	51.1	53.4	53.5	54.5	56.4	60.0	63.7	65.3	67.0	69.1	55.5	43.1	33.1	23.
16000	41.4		45.	45.	46.0	45.8	48.4	48.7	48.5	51.5	55.1	58.8	4.09	62.2	64.5	51.2	38.6	28.6	18.
23300	36.0	34.2	40.5	39.6	4004	46.0	43.0	43.4		•	49.7	53.3	54.9	57.0	58.5	46.6	33.8	23.8	13.8
25060	30.6		3.1.	23	24. 3	22.7	23 0	27 E	30	0	1.7 7	1.7 7	0	2 4 2			0 0 0	9	· W

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

NOISE SOURCE/SUBJECT: U-2 AIRCRAFT ENG. J75-P-13 GROUND RUND	ZS-P-A	SOURCE/SUBJECT: 2 AIRCRAF 16. J75-P-13 10UNU RUNUP														- RUN	0.3		
2014		-	F		OPER	MATION: MILITARY POWER, SINGLE ENGINE, EST. F-105 +0.2	ENGIN	10-2 0-2 08	62 RPM		METEOROLOGYS TEMP BAR PRES REL HUMI	PRESS HUMID	=29.	59 F 92 IN H 70 %	9	PRO PAGE	AIRCRAFT (OPERATION (PROFILE VER 76 PAGE G3	SODE SODE SSION	518 01104 A
(FEET)	•	70	97	30	9	20	9	3.5	ANGLE	26	(DEGREES)	110	120	130	140	150	160	*170 ,	>180
200	99.2	102.8	103.6	103.	104.9		109.9	110.2	109.7	113.1		119.4	118.9	120.3	122.8	110.1	6.96	86.9	6.92
		100.7	-	101	102.8	103.	106.9		107.6	111.0	113.	117.2	116.8			108.1	6.46	6.48	4.9
	92.00	90.00	49.6	23.7	100.7	101.5	104.7	105.9	105.4	106.8	1111.6	115.0	114.7	116.2	118.7	106.0	92.8	82.8	72.8
	90.7	94.3	95.1	95	96.3	97.	100.2		100.9	104.2	107	110.5	110.3			101.7	88.6	78.6	68.6
	88.5	92.1	\$2.9	93.	94.1	94.	97.9		98.5	101.8	104	108.2	108.1			4.66	86.3	76.3	66.3
	96.2	89.8	2005	90.	91.8		95.5		96.1	4.66	1,2.	105.9	105.8			97.1	84.1	74.1	64.1
1000	83.9	87.5	88.6	83.5	8	0.05		94.2	93.7	9.50	99.9	103.4	103.5	105.2	107.8	9.40	81.7	71.7	61.7
	81.5	85.1	86.0	86.0	86.9			91.6	91.1	94.3	4.76	100.9	101.1	102.7	105.3	92.0	79.2	69.2	2000
	79.1	82.6	83.5		4.40	84.3	88.0	89.0	88.4	91.6	94.7	98.3	98.6	100.2	102.7	89.3	76.6	66.6	50.6
	16.5	43.1		90.	61.8			86.2	85.7	88.8	92.0	95.7	96.0	97.6	1001	86.5	73.8	63.8	53.8
	73.7	77.2		78.	76.9			83.1	82.5	85.7	99.0	92.7	93.0	94.6	97.0	83.3	7.0.7	2.09	2005
	19.5	74.0	75.0	74.	75.7			79.7	19.1	82.4	85.7	4.60	89.8	91.3	93.5	79.7	67.3	57.3	47.3
	6.99	70.3	71.5	71.	72.1			15.6	75.3	78.4	81.8	85.5	86.2	87.6	89.7	75.8	63.5	53.5	43.5
	65.9	999	67.5	67.	68.1			71.1	71.0	73.9	77.4	81.2	82.1	83.4	85.3	71.5	59.3	49.3	39.3
	28.6	61.5	63.5	63.	65.8	64.3	66.1	66.3	4.99	69.5	72.8	76.6	77.8	79.0	80.9	67.0	54.8	44.8	34.8
8430	6 ** 5	51.5	29.5	59.	58.8	00	62.1	62.2	62.6	65.2	68.8	72.6	74.0	+	77.3	63.5	51.5	41.2	31.2
10000	50.8	53.5		55.	55.7	55.9	57.	57.8	58.0	60.9	64.5	68.2	69.8	71.4	73.4	9.69	47.3	37.3	27.3
	4004	48.7		20.	21.1		53.	53.5	24.5	56.4	60.0	63.7	65.3	67.0	69.1	52.5	43.1	33.1	23.1
	41.4	43.7		45.	40.0		*8*	48.7	49.5	51.5	55.1	58.8	60.4	62.2	64.5	51.2	385€	28.6	18.6
	36.0	38.2			40.4			43.4	44.2	40.0	1.64	53.3	24.9	57.0	59.5	9.94	33.8	23.8	13.8
25000	30.6	32.1	34.0	33.	34.2			37.5	38.4	0.94	43.7	47.3	44.9	51.3	54.1	41.A	28.0	0 4	0.4

	DISTANCE = 250) FEET									DMEGA 8.2 TEST 76-518-00	OMEGA 8.2 TEST 76-518-001	-
OISE SOURCE/SUB U-2 AI ENG. J75-P-1 GROUND RUNUP	NOISE SOURCE/SUBJECT! U-2 AIRCRAFT ENG. J75-P-13 GROUND RUNUP		OPERATIONS MILITA SINGLE EST. F	ARY POWER	ATION! MI_ITARY POWER, 100% RPH SINGLE ENGINE, J-2 EST. F-105 +0.208		METEOROLOGY: TEMP BAR PRESS REL HUMIO	DE SS = 2 HUMIO = 2	= 59 F =29.92 IN HG = 70 %		AINCRAFT CODE 5 OPERATION CODE 0 PROFILE VERSION 27 APR 76 PAGE J3	T CODE ION CODE VERSIO	518 01004 N A
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R 116					• •	•	II.		. AT		٠.	•	
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. SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.